



FLOW RATE

Mass Flow Rate (max.): 450 kg/h [16.53 lb/min]

PRESSURE RATING

1,050 bar [15,200 psi]

ACCURACY

Flow: ±1 % of reading
 Repeatability: ±0.5 % of reading
 Rangeability: 70:1
 Zero Stability: ±0.1 % of full scale (0.45 kg/h)
 [±0.1 % of full scale (0.01653 lb/min)]
 Temperature: ±1.8 °F ±0.5 % of reading
 [±1 °C ±0.5 % of reading]

OPERATING CONDITIONS - PROCESS²⁾

Process Temperature Range: -40 °C ... +100 °C [-40 °F ... +212 °F]
 Medium: H₂ gaseous

OPERATION CONDITIONS - ENVIRONMENT

Ambient Temperature: -40 °C ... +70 °C [-40 °F ... +158 °F]
 Relative Humidity: max. 95 %

MATERIALS (WETTED PARTS)

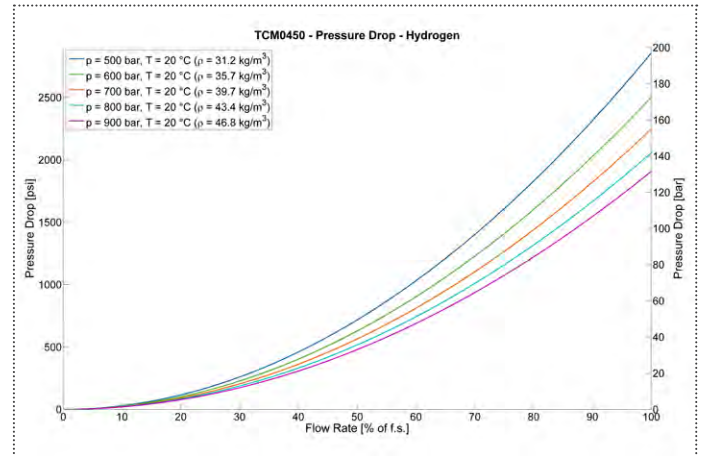
Tubes: Sandvik Alloy HP160
 Case: 1.4404 [AISI 316L]
 Flow Splitter: 1.4404 [AISI 316L]

BURST PROTECTION

Rupture Disc: G½"

CONNECTIVITY

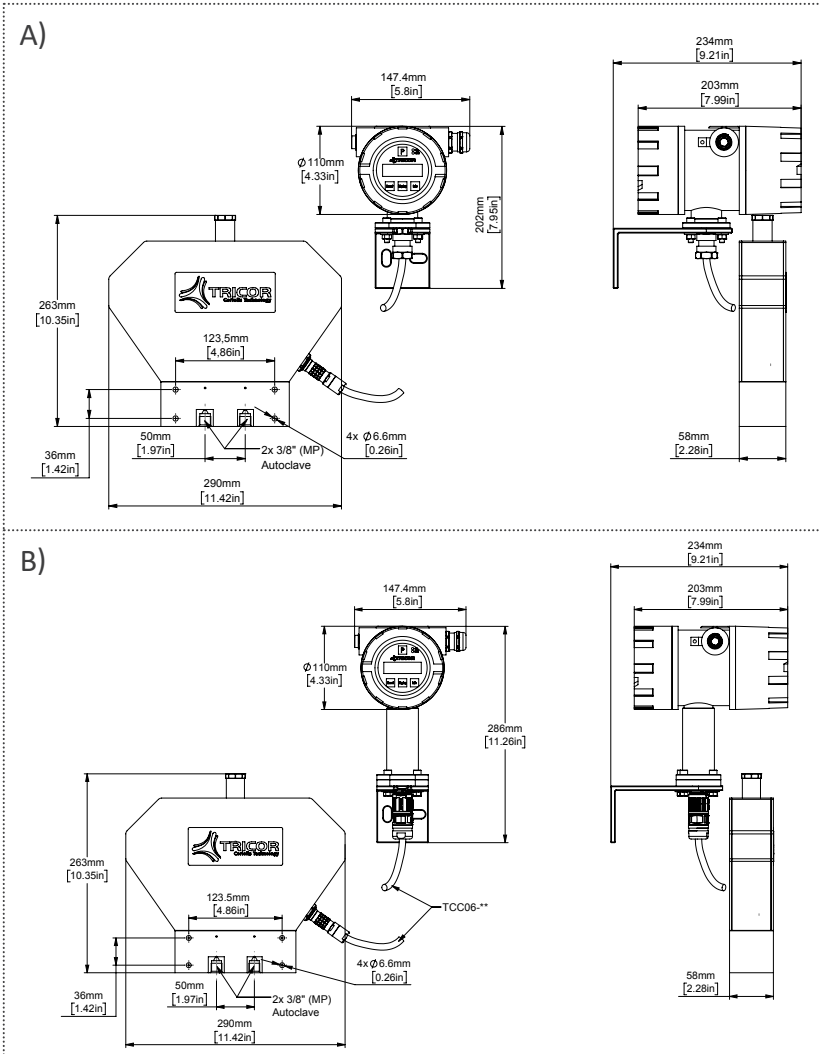
Flow Meter: ¾" Autoclave (MP)
 Signal Cable Connection: Push-Pull connector
 For triple Ex approval (Ex3)¹⁾



¹⁾ With connector M23 (TCE) and with connector Lemo (TCM), x m cable length (TCC-06-xx).



HIGH PRESSURE | TCMH 0450 Coriolis Mass Flow Meter – Hydrogen



METER DIMENSIONS AND WEIGHTS

A) Ex/Ex1

Weight: 7.5 kg [16.5 lb]

B) Ex3

Weight: 7.5 kg [16.5 lb]

EX-CERTIFICATIONS

ATEX (Ex)	Zone 1: Group IIC, T2...T4
ATEX (Exn)	Zone 2: II 3G Ex nA IIC T2...T4 Gc
IECEX (Ex)	Zone 1: Group IIC, T2...T4
cCSAus (Ex1)	Class 1, Division 1: Group A, B, C, D, T2...T4
ATEX + IECEX + cCSAus triple approval (Ex3)	Zone 1: Group IIC, T2...T4 Class 1, Division 1: Group A, B, C, D, T2...T4

ELECTRONICS

Power Supply:	24 V DC \pm 20 % or 90 ... 264 V AC
Housing Material:	Aluminum 1.4404 [AISI 316L]
Display:	LCD Display

OUTPUT SIGNALS

Analogue:	2 x 4 ... 20 mA passive two-wire, galvanically free accuracy \pm 0.05 % of f.s. temperature drift 0.05 % per 10 K load $<$ 620 Ω (with 24 V supply) output value programmable
Frequency/Pulse:	5 - 10,000 Hz active, push pull for flowrate
Status:	push pull programmable

INPUT SIGNALS

Control Input:	0/24 V DC
Analogue (optional):	4 ... 20 mA active for passive 2-wire-pressure sensor supply $>$ 20 V (sensor current 20 mA)
Interfaces:	RS485 RTU (Modbus), optional HART®

PROTECTION CLASS IP65 (NEMA 4)

REMOTE MOUNT²⁾



²⁾ Weight with aluminum diecast housing: 3.8 kg [8.4 lb] with 3 m cable.



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