

SmartLine® VersaFlow Coriolis 100 CM02 Size 25 Stainless Steel

Model Selection Guide



- Secondary pressure containment around sensor
- Easily drained and easy to clean
- Regardless of type of installation and external factors
- Excellent zero stability
- Low energy consumption, low operating and installation costs
- Rapid signal processing even with product and temperature changes and sudden changes in density
- Modular electronics concept: electronics and sensor easy to replace
- Data redundancy: accurate plug & play replacement of electronics

Instructions

Select the desired key number. The arrow to the right marks the selection available.
Make the desired selections from Tables I through VIII using the column below the proper arrow. A dot (•) denotes availability.

Table	I	II	III	IV	V	VI	VII	VIII
CM02	4	---	-	--	---	---	-	-

KEY NUMBER	Description	Selection	Availability
CM02		CM02	↓

TABLE I

Sensor	Selection	Availability
	4	•

TABLE II

Tube Material	Stainless Steel	S_ _ _	•
Surface Finish	Standard	_ 0 _ _	•
	Polished Ra 0.5 µm See Note 2	_ 1 _ _	•
Flange Connection Size	DN 40 PN 40 to DIN 2501	_ _ D A	•
	DN 40 PN 100 to DIN 2501	_ _ D C	d
	DN 25 PN 40 to DIN 2501	_ _ C A	•
	DN 25 PN 100 to DIN 2501	_ _ C C	d
	DN 50 PN 40 to DIN 2501	_ _ E A	•
	1 1/2" ASME 150 lb	_ _ N D	•
	1 1/2" ASME 300 lb	_ _ N E	•
	1 1/2" ASME 600 lb	_ _ N F	d
	1" ASME 150 lb	_ _ M D	•
	1" ASME 300 lb	_ _ M E	•
	1" ASME 600 lb	_ _ M F	d
	2" ASME 150 lb	_ _ P D	•
	40 A JIS 20 K	_ _ W H	•
25 A JIS 20 K	_ _ V H	•	
Hygienic and Aseptic Connectors	DN 40 DIN 11864-2 Form A Type N	_ _ D L	•
	DN 40 DIN 11851 SC Threaded	_ _ D M	•
	DN 40 Tri-clamp to DIN 32676	_ _ D N	•
	1 1/2" Tri-clover clamp	_ _ N R	•
	1 1/2" Tri-clamp to ISO 2852	_ _ N T	•
	1 1/2" SMS	_ _ N V	•
	1 1/2" IDF (International Dairy Federation)	_ _ N W	•
	1 1/2" RJT	_ _ N Z	•

TABLE III

Sealing face	Standard (Type B1 for PN 40 & B2 for PN 63/100 acc. EN 1092-1) EN 1092-1 Type C with tongue EN 1092-1 Type D with groove	0 C D	• c c

TABLE IV

Secondary Containment	All externals SS 304 L No secondary pressure containment. Typical burst pressure > 100 bar All externals SS 316 L No secondary pressure containment. Typical burst pressure > 100 bar All externals SS 304 L Max Sec. Pressure containment 63 bar/913 psi (PED approved) See Note 1 All externals SS 316 L Max Sec. Pressure containment 63 bar/913 psi (PED approved) None Max Sec. Pressure containment 100 bar/1450 psi (PED approved)	G_ _ H_ _ 0_ _ A_ _ B_ _	• • • • •
Options	None	_ 0	•
	Liquid/steam heating jacket-Ermeto (max.temp 130°C/266°F)	_ 1	•
	Liquid/steam heating jacket-1/2" NP* (max.temp 130°C/266°F)	_ 2	•
	Purge fittings-1/2" NPTF	_ 3	•

TABLE V

Hazardous Area Approvals	None ATEX EEx ib (T1-T4) FM Class 1 Div 1/Div 2 CSA Class 1 Div 1/Div 2 (including CRN approval)/Dual Seal for liquids CSA Class 1 Div 1/Div 2 (including CRN approval)/Dual Seal for gases NEPSI Ex ib (T1-T4) None (for Canada only - CRN approved) IEC Ex ib (T1-T4)	0 __ • 1 __ f 3 __ f 5 __ f 6 __ f 7 __ f C __ • R __ f
Hygienic/Sanitary Approvals (requires polishing option)	None 3A (American Dairy Approval) Requires polishing to RA 0.5 µm	_ 0 _ • _ 2 _ e
Configuration	Compact/integral mount Remote/field mount Alu Junction box Remote/field mount SS Junction box Direct Digital Comms (DDC) Alu JB via Modbus (with TWC 010 only) Direct Digital Comms (DDC) SS JB via Modbus (with TWC 010 only)	__ 0 • __ 1 • __ 2 • __ D b __ E b

TABLE VI

Calibration	Standard 3 point flow and density calibration 5 point flow calibration evenly spread accros nom. flow rate 0 + custom density calibration with water at 3 temps. + certificate 1 + custom density calibration with water at 3 temps. + certificate	0 __ • 1 __ • A __ • B __ •
Cleaning/Degreasing	None Degreasing wetted parts plus certificate	_ 0 _ • _ 1 _ •
Extended Options	None	__ 0 •

TABLE VII

No Selection	None	V •
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TABLE VIII

Converter Type	TWC 010 C Requires a separate MSG# to be entered. CM93 MSG # 36-CM-16-24 TWC 9000 Compact mount TWC 9000 Field mount Requires a separate MSG# to be entered. Either CM90 MSG# 36-CM-16-21; CM91 MSG# 36-CM-16-22 or CM92 MSG# 36-16-23 TWC 9000 Wall Mount (non Ex only) TWC 9000 Rack mount (non Ex only)	1 • g C • D • E • F •
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RESTRICTIONS

Restriction	Available only with		Not available with	
	Letter	Table	Table	Selection
b		VIII		1
c		II		__ DA, __ DC, __ CA, __ CC
d		IV		B _
e		II		_ 1 _
		II		__ D L, __ D M, __ D N, __ N R, __ N T, __ N V, __ N W, __ N Z
f		VIII		1, C, D
g		V		__ D, __ E

Secondary Containment Information + Polishing Information

Note 1

Secondary Containment Information

The following information is provided to try to simplify the selection of the secondary containment /outer casing option

- G All externals SS 304/L No secondary pressure containment. Typical burst pressure > 100 bar
- H All externals SS 316/L No secondary pressure containment. Typical burst pressure > 100 bar
- O All externals SS 304/L Max Sec. Pressure containment 63 bar/913 psi (PED approved)
- A All externals SS 316/L Max Sec. Pressure containment 63 bar/913 psi (PED approved)
- B All externals SS 316/L Max Sec. Pressure containment 100 bar/1450 psi (PED approved)

Notes:

1. There are no longer any flange constraints for options G and H
2. You may now choose the required outer casing (option G and H) in combination with any process connection irrespective of the pressure rating.
3. Most applications do not require secondary containment, so the 304L (option G) may be used unless 316L is specifically requested.
4. The food and pharmaceutical industries require 316L materials in most cases so option H will be suitable here.
5. Options O, A and B are available for customers who still require PED approved secondary containment.
6. On Options O, A and B flanges with higher pressure ratings than the secondary pressure containment can not be ordered.

Warning

In the case of high pressure gases, gases kept as liquids at high pressures and/or where there is a danger of the measuring tube failing due to process conditions, e.g. with erosive or corrosive products, it is strongly recommended that a secondary pressure containment option is purchased. Where process pressures exceed the secondary containment pressure rating, an optional burst disc should be fitted. This is highly recommended for High pressure gases. Please consult factory.

Note 2

Polishing Information

1. To guarantee the surface finish of an CM Coriolis Meter, it is mandatory to order the polishing option as per the price list
2. This is also mandatory for a meter requested with hygienic approvals
3. For all other meters, the surface finish can not be guaranteed unless polishing is ordered as per 1.