

## SmartLine® VersaFlow Coriolis 100 CM03 Size 40 Stainless Steel

Model Selection Guide  
36-CM-16-27 Issue 22

## Model Selection Guide with Price Data

Honeywell Proprietary

- 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	IX
CM03	4	---	-	--	---	---	-	--	-

List Price equals the sum of prices for all selections made.

KEY NUMBER	Description	Selection	Availability
CM03		CM03	↓

### TABLE I

Sensor	4	•

### TABLE II

Tube Material	Stainless Steel	S	•
Surface Finish	Standard Polished Ra 0.8 µm <b>See Note 2</b>	_ 0 _ _	•
		_ 2 _ _	•
Flange Connection Size	DN 50 PN 40 to DIN 2501	_ _ E A	•
	DN 50 PN 63 to DIN 2501	_ _ E B	•
	DN 50 PN 100 to DIN 2501	_ _ E C	d
	DN 40 PN 40 to DIN 2501	_ _ D A	•
	DN 40 PN 100 to DIN 2501	_ _ D C	d
	DN 80 PN 40 to DIN 2501	_ _ F A	•
	2" ASME 150 lb	_ _ P D	•
	2" ASME 300 lb	_ _ P E	•
	2" ASME 600 lb	_ _ P F	d
	3" ASME 150 lb	_ _ R D	•
	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	
50 A JIS 10 K	_ _ X G	•	
40 A JIS 20 K	_ _ W H	•	
50 A JIS 20 K	_ _ X H	•	
Hygienic and Aseptic Connectors	DN 50 DIN 11864-2 Form A Type N	_ _ E L	•
	DN 50 DIN 11851 SC Threaded	_ _ E M	•
	DN 50 Tri-clamp to DIN 32676	_ _ E N	•
	2" Tri-clover clamp	_ _ P R	•
	2" Tri-clamp to ISO 2852	_ _ P T	•
2" SMS	_ _ P V	•	

### 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 RTJ Acc ASME B16.5 (available with ASME 300 lb and above)	0 C D E	• c c m

### 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) <b>See Note 1</b> All externals SS 316 L Max Sec. Pressure containment 63 bar/913 psi (PED approved) All externals SS 316 L Max Sec. Pressure containment 100 bar/1450 psi (PED approved)	G H 0 A B	• • • • •
Options	None Liquid/steam heating jacket-Ermeto (max. temp 130°C/266°F) Liquid/steam heating jacket-1/2" NP1 (max. temp 130°C/266°F) Purge fittings-1/2" NPTF	_ 0 _ _ 1 _ _ 2 _ _ 3 _	• • • •

The minimum value of orders acceptable for Honeywell is USD 500. Handling fee is the amount of the difference between USD 500 and the actual purchase price.

TABLE V

		Selection	Availability
Hazardous Area Approvals	None	0 __	•
	ATEX Ex ia (T1-T6)	1 __	h
	FM Class 1 Div 1/Div 2	3 __	b
	CSA Class 1 Div 1/Div 2 (including CRN approval)/Dual Seal for liquids	5 __	b
	CSA Class 1 Div 1/Div 2 (including CRN approval)/Dual Seal for gases	6 __	b
	cFMus (US standards)	T __	h
cFMus (Canadian Standards) / Dual seal for liquids	U __	h	
cFMus (Canadian Standards) / Dual seal for gases	V __	h	
IEC Ex ia (T1-T6)	R __	h	
Hygienic/Sanitary Approvals (requires polishing option)	None	_ 0 _	•
	3A (American Dairy Approval) Polished Ra 0.5 also required	_ 2 _	e
Configuration	Compact/integral mount	__ 0	•
	Remote/field mount Alu Junction box	__ 1	•
	Remote/field mount SS Junction box	__ 2	•
	Direct Digital Comms (DDC) Alu JB via Modbus (with TWC 010 only)	__ D	b
	Direct Digital Comms (DDC) SS JB via Modbus (with TWC 010 only)	__ E	b

TABLE VI

Calibration	Standard 3 point flow and density calibration	0 __	•
	5 point calibration evenly spread across nom. flow rate	1 __	•
	0 + custom density calibration with water at 3 temps. + certificate	A __	•
	1 + custom density calibration with water at 3 temps. + certificate	B __	•
Cleaning/Degreasing	None	_ 0 _	•
	Degreasing wetted parts plus certificate	_ 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	1 _	g
	TWC 9400 Compact mount	Requires a separate MSG# to be entered. Either CM96	6 _	k
Destination	TWC 9400 Field mount	MSG# 36-CM-16-50 or CM97 MSG# 36-CM-16-52	7 _	k
	Other		_ 0	•

Table IX

Functional Safety	Without	0	•
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RESTRICTIONS

Restriction		Available only with	Not available with	
Letter	Table	Selection	Table	Selection
b	VIII	1 _		
c	II	__ EA, __ E B, __ EC, __ DA, __ DC		
d	IV	B _		
e	II	__ E L, __ E M, __ E N, __ P R, __ P T, __ P V		
g	V	__ D, __ E	V	1 __, T __, U __, V __, R __
h	VIII	6 __, 7 _		
k	V	0 __, 1 __, T __, U __, V __, R __		
m	II	__ NE, __ NF, __ PE, __ PF		

\*\* Process temperature limits for all models with hygienic connections is -20°C to 150°C

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
0	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:

- There are no longer any flange constraints for options G and H
- You may now choose the required outer casing (option G and H) in combination with any process connection irrespective of the pressure rating.
- Most applications do not require secondary containment, so the 304L (option G) may be used unless 316L is specifically requested.
- The food and pharmaceutical industries require 316L materials in most cases so option H will be suitable here.
- Options 0, A and B are available for customers who still require PED approved secondary containment.
- On Options 0, 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

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