

## SmartLine® VersaFlow Coriolis 100 CM04 Size 50 Stainless Steel

Model Selection Guide  
36-CM-16-28 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
CM04	4	-----	-	--	---	----	-	-	-

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

KEY NUMBER	Description	Selection	Availability
CM04		CM04	↓

TABLE I		
Sensor	4	•

TABLE II		
<b>Tube Material</b>	Stainless Steel	S_ _ _ •
<b>Surface Finish</b>	Standard Polished Ra 0.8 µm <b>See Note 2</b>	_ 0 _ _ • _ 2 _ _ •
<b>Flange Connection Size</b>	DN 80 PN 40 to DIN 2501 DN 80 PN 63 to DIN 2501 DN 80 PN 100 to DIN 2501 DN 50 PN 40 to DIN 2501 DN 50 PN 63 to DIN 2501 DN 50 PN 100 to DIN 2501 DN 100 PN 40 to DIN 2501 3" ASME 150 lb 3" ASME 300 lb 3" ASME 600 lb 2" ASME 150 lb 2" ASME 300 lb 2" ASME 600 lb 4" ASME 150 lb 80 A JIS 10 K 50 A JIS 10 K 50 A JIS 20 K 80 A JIS 20 K	_ _ F A • _ _ F B • _ _ F C <b>d</b> _ _ E A • _ _ E B • _ _ E C <b>d</b> _ _ G A • _ _ R D • _ _ R E • _ _ R F <b>d</b> _ _ P D • _ _ P E • _ _ P F <b>d</b> _ _ S D • _ _ Y G • _ _ X G • _ _ X H • _ _ Y H •
<b>Hygienic and Aseptic Connectors</b>	DN 800 DIN 11864-2 Form A Type N DN 80 DIN 11851 SC Threaded DN 80 Tri-clamp to DIN 32676 3" Tri-clover clamp 3" Tri-clamp to ISO 2852 3" SMS	_ _ F L • _ _ F M • _ _ F N • _ _ R R • _ _ R T • _ _ R V •

TABLE III		
<b>Sealing face</b>	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 <b>c</b> D <b>c</b> E <b>m</b>

TABLE IV		
<b>Secondary Containment</b>	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 _ •
<b>Options</b>	None Liquid/steam heating jacket-Ermeto 2 (max.temp 130°C/266°F) Liquid/steam heating jacket-1" NPTF (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
<b>Hazardous Area Approvals</b>	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
<b>Hygienic/Sanitary Approvals (requires polishing option)</b>	None	_0_	•
	3A (American Dairy Approval) Polished Ra 0.5 also required	_2_	e
<b>Configuration</b>	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

<b>Calibration</b>	Standard 3 point flow and density calibration	0__	•
	5 point calibration evenly spread accros 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__	•
<b>Cleaning/Degreasing</b>	None	_0_	•
	Degreasing wetted parts plus certificate	_1_	•
<b>Extended Options</b>	None	__0	•

TABLE VII

<b>No Selection</b>	None	V	•
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TABLE VIII

<b>Converter Type</b>	TWC 010 C	<b>Requires a separate MSG# to be entered. CM93 MSG # 36-CM-16-24</b>		1_	g
	TWC 9400 Compact mount	Requires a separate MSG# to be entered. Either CM96		6_	k
	TWC 9400 Field mount	MSG# 36-CM-16-50 or CM97 MSG# 36-CM-16-52		7_	k
<b>Destination</b>	Other			_0	•

Table IX

<b>Functional Safety</b>	Without	0	•
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**RESTRICTIONS**

Letter	Restriction Table	Available only with		Not available with	
		Selection	Table	Selection	Table
b	VIII	1_			
c	II	__FA, __FB, __FC, __EA, __EB, __EC			
d	IV	B__			
e	II	_2_			
	II	__FL, __FM, __FN, __RR, __RT, __RV			
g	V	__D, __E	V	1__, T__, U__, V__, R__	
h	VIII	6_, 7_			
k	V	0__, 1__, T__, U__, V__, R__			
m	II	__RE, __RF, __PE, __PF			

**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:**

- 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 O, A and B are available for customers who still require PED approved secondary containment.
- 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**

- 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.