

## SmartLine® VersaFlow Coriolis 1000 CM25 Size 50 Stainless Steel

## Model Selection Guide with Price Data

Model Selection Guide  
36-CM-16-13 Issue 13

Honeywell Proprietary

- Secondary pressure containment around sensor
- Easily drained and easy to clean
- 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



### 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
CM25	4	-	-	-	-	-	-	-

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

KEY NUMBER	Description	Selection Availability	U.S.\$
CM25		CM25 ↓	0

TABLE I			
Sensor		4 •	0

TABLE II			
Tube Material	Stainless Steel	S _ _ _ •	13,721
Surface Finish	Standard (Better than 0.8µm) Polished Ra 0.5 µm <b>See Note 2</b>	_ 0 _ _ • _ 1 _ _ •	0 1,720
Connection Size - Flanges	DN 50 PN 40 to DIN 2501 2" ANSI 150 lb 2" ANSI 300 lb 50 A JIS 10 K 50 A JIS 20 K	_ _ E A • _ _ P D • _ _ P E • _ _ X G • _ _ X H •	0 0 687 0 687
Hygienic and Aseptic Connectors (Adaptor design)	DN 50 DIN 11851 SC Threaded Sanitary Connector DN 50 Tri-clamp to DIN 32676 3" Tri-clover 3" Tri-clamp to ISO 2852 3" SMS Sanitary Connector 3" IDF (International Dairy Federation) Connector 3" RJT Sanitary Connector	_ _ E M • _ _ E P • _ _ R S • _ _ R U • _ _ R V • _ _ R W • _ _ R Z •	879 879 879 879 879 879 879
Hygienic and Aseptic Connectors (All welded design)	DN 50 DIN 11864-2 Form A Sanitary Connector DN 50 Tri-clamp to DIN 32676 3" Tri-clover clamp 3" Tri-clamp to ISO 2852	_ _ E L • _ _ E N • _ _ R R • _ _ R T •	735 911 1,214 1,214

TABLE III			
Sealing face	Standard (Type B1 acc. EN 1092-1) EN 1092-1 Type C with tongue EN 1092-1 Type D with groove	0 • C c D c	0 638 638

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) All externals SS 316 L Max Sec. Pressure containment 63 bar/913 psi (PED approved) <b>See Note 1</b>	G _ • H _ • 0 _ • A _ •	0 1,018 827 1,050
Options	None Liquid/steam heating jacket-Ermeto 25 (max.temp 100°C/212°F) Liquid/steam heating jacket-1" NPTF (max.temp 100°C/212°F) Purge fittings-1/2" NPTF	_ 0 • _ 1 • _ 2 • _ 3 •	0 2,709 2,667 671

TABLE V			
Hazardous Area Approvals	None ATEX EEx ib 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 EEx ib For Canada only - CRN Approved IEC Ex ib (T1-T6)	0 _ • 1 _ e 3 _ e 5 _ e 6 _ e 7 _ e C _ • R _ e	0 262 262 262 1,246 262 0 262
Hygienic/Sanitary Approvals	None EHEDG (European Hygienic Equipment Design Group) Polished Ra 0.5 also required 3A (American Dairy Approval) Polished Ra 0.5 also required ASME Bioprocessing Equipment Standard Polished Ra 0.5 also required	_ 0 • _ 1 d _ 2 d _ 3 d	0 262 262 262

TABLE VI

<b>Configuration</b>	Compact/integral mount	0 ___	•	0
	Remote/field mount Alu Junction box	1 ___	•	191
	Remote/field mount SS Junction box	2 ___	•	256
	Direct Digital Comms (DDC) Alu JB via Modbus (with TWC 010 only)	D ___	<b>b</b>	191
	Direct Digital Comms (DDC) SS JB via Modbus (with TWC 010 only)	E ___	<b>b</b>	256
<b>Calibration</b>	3 point mass flow calibration	_ 0 _ _	•	0
	5 point mass flow calibration	_ 1 _ _	•	1,056
	3 point volume flow calibration	_ 3 _ _	•	2,271
	5 point volume flow calibration	_ 4 _ _	•	3,326
	0 + density calibration with water at 3 temps. + certificate	_ A _ _	•	2,271
	1 + density calibration with water at 3 temps. + certificate	_ B _ _	•	3,326
	0 + Density at water plus two other liquids + certificate	_ C _ _	•	3,977
	1 + UKAS calibration certificate	_ D _ _	•	1,405
4 + UKAS calibration certificate	_ E _ _	•	3,643	
<b>Cleaning/ Degreasing</b>	None	_ _ 0 _	•	0
	Degreasing wetted parts plus certificate	_ _ 1 _	•	861
<b>Extended Options</b>	None	_ _ _ 0	•	0
	Extended operating temp. to 130°C/266°F (available with hygienic connections only)	_ _ _ 1	<b>g</b>	586

TABLE VII

<b>No Selection</b>	None	V	•	0
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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	<b>f</b>	0
	TWC 9000 Compact mount	<b>Requires a separate MSG# to be entered.</b>	C	•	0
	TWC 9000 Field mount	<b>Either CM90 MSG# 36-CM16-21;</b>	D	•	0
	TWC 9000 Wall Mount (non Ex only)	<b>CM91 MSG# 36-CM-16-22 or</b>	E	•	0
	TWC 9000 Rack mount (non Ex only)	<b>CM92 MSG# 36-CM-16-23</b>	F	•	0

RESTRICTIONS		Available only with	Not available with	
Letter	Table	Selection	Table	Selection
b	VIII	1		
c	II	_ _ EA		
d	II	_ 1 _ _		
	II	_ _ EM, _ _ EP, _ _ RS, _ _ RU, _ _ RV, _ _ RW, _ _ RZ, _ _ EL, _ _ EN, _ _ RR, _ _ RT		
e	VIII	1, C, D		
f	VI	D _ _ , E _ _		
g	II	_ _ EM, _ _ EP, _ _ RS, _ _ RU, _ _ RV, _ _ RW, _ _ RZ, _ _ EL, _ _ EN, RR, RT		

**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 CM meters, the typical surface finish is <0.8 µm as standard
4. For all other meters, the surface finish can not be guaranteed unless polishing is ordered as per 1.