

SmartLine® VersaFlow Coriolis 1000 CM20 Size 06 Stainless Steel

Model Selection Guide with Price Data

Model Selection Guide
36-CM-16-08 Issue 21

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	IX
CM20	4	-	-	-	-	-	-	-	-

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

KEY NUMBER	Description	Selection	Availability
CM20		CM20	↓

TABLE I		
Sensor		4 •

TABLE II		
Tube Material	Stainless Steel	S _ _ •
Surface Finish	Standard (Better than 0.8µm) Polished Ra 0.5 µm See Note 2	_ 0 _ • _ 1 _ •
Connection Size - Flanges	DN 10 PN 40 to DIN 2501 DN 15 PN 40 to DIN 2501 1/2" ANSI 150 lb 1/2" ANSI 300 lb 10 A JIS 20 K 15 A JIS 20 K	_ _ A A • _ _ B A • _ _ K D • _ _ K E • _ _ T H • _ _ U H •
Hygienic and Aseptic Connectors (All welded design)	DN 10 Tri-clamp to DIN 32676 1/2" Tri-clover clamp	_ _ A N • _ _ K R •

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

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) See Note 1	G _ • H _ • 0 _ • A _ •
Options	None Purge fittings-1/2" NPTF	_ 0 • _ 3 •

TABLE V		
Hazardous Area Approvals	None ATEX Ex ia (T1-T6) 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 cFMus (US standards) cFMus (Canadian Standards) / Dual seal for liquids cFMus (Canadian Standards) / Dual seal for gases IEC Ex ia (T1-T6)	0 _ • 1 _ h 3 _ b 5 _ b 6 _ b T _ h U _ h V _ h R _ h
Hygienic/Sanitary Approvals	None EHEDG (U.S.\$pean 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

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 VI

Configuration	Selection	Availability
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
Calibration	3 point mass flow calibration	0 ___
	5 point mass flow calibration	1 ___
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	Requires a separate MSG# to be entered. CM93 MSG # 36-CM-16-24	1_	f
TWC 010 C		6_	g
TWC 9400 Compact mount	Requires a separate MSG# to be entered. Either CM96	7_	g
TWC 9400 Field mount	MSG# 36-CM-16-50 or CM97 MSG# 36-CM-16-52	0_	•
Destination	Other		

Table IX

Functional Safety	Without	0	•
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RESTRICTIONS

Letter	Restriction	Available only with		Not available with	
		Table	Selection	Table	Selection
b	VIII		1_		
c	II		__ AA, __ BA		
d	II		__ 1_		
	II		__ A N, __ K R		
f	VI		D ____, E ____, V	1_, T_, U_, V_, R_	
g	V		0_, 1_, T_, U_, V_, R_		
h	VIII		6_, 7_		

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