

Versaflow Mag 4000

MM 42 Size 8" to 24"

Model Selection Guide
36-MM-16-03 Issue 29

Model Selection Guide with Price Data

Honeywell Proprietary



Easy to configure, easy to use
Chemically resistant to alkaline solutions and acids
Diameter range: 1/10" - 120" / DN 2.5 - 3000
Standard liners: PTFE, PFA, ETFE
Various electrode materials available
Conductivity: non water >1 uS/cm; water >20 uS/cm
Process temperature up to 356°F / 180° C
Hazardous area versions available

Instructions

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

Table	I	II	III	IV	V	VI	VII	VIII
MM42	4	---	-	---	--	--	---	---

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

KEY NUMBER	Description	Selection	Availability
MM42		MM42	↓

TABLE I - Flow Sensor

Flow Sensor	Selection	Availability
	4	•

TABLE II

Nominal Diameter	DN 200 / 8"	ETFE	E ---	•
	DN 250 / 10"	ETFE	F ---	•
	DN 300 / 12"	ETFE	G ---	•
	DN 350 / 14"	ETFE	H ---	•
	DN 400 / 16"	ETFE	K ---	•
	DN 450 / 18"	ETFE	L ---	•
	DN 500 / 20"	ETFE	M ---	•
	DN 600 / 24"	ETFE	N ---	•
Nominal Pressure	PN 10 EN 1092-1		_ 2 _	•
	PN 16 EN 1092-1		_ 3 _	•
	PN 25 EN 1092-1		_ 4 _	•
	PN 40 EN 1092-1		_ 5 _	•
	ASME B 16.5 150 lb RF		_ A _	•
	ASME B 16.5 300 lb RF		_ B _	•
JIS 10 K		_ N _	•	
Approvals	None		_ 0 _	•
	EEx zone 1 (Converter TWM 9000 C or F & TWM 1000 C or W)		_ 1 _	t
	FM Class 1 DIV 2 (Converter TWM 9000 C or TWM 9000 F)		_ 5 _	q
CSA Class 1 DIV 2 (Converter TWM 9000 C or TWM 9000 F)		_ C _	q	
System design	Compact with aluminum converter housing	at converter cable mounting	_ 1 _	•
	Compact with stainless steel converter housing	at converter cable mounting	_ 2 _	•
	Separate with aluminum connection box	1/2" NPT cable mounting	_ 4 _	•
	Separate with aluminum connection box	PF 1/2 cable mounting	_ 5 _	•
	Separate with aluminum connection box	M20 x 1.5 cable mounting	_ 6 _	•
	Separate with stainless steel connection box	1/2" NPT cable mounting	_ A _	•
	Separate with stainless steel connection box	PF 1/2 cable mounting	_ B _	•
	Separate with stainless steel connection box	M20 x 1.5 cable mounting	_ C _	•

TABLE III - Converter model

Converter model	Without Converter (replacement sensor only)		0	g
	TWM 1000 C (compact design)	Requires a separate MSG # to be entered. Either: MM90 MSG # 36-MM-16-05; MM91 MSG # 36-MM-16-06; MM92 MSG # 36-MM-16-07; or MM95 MSG # 36-MM-16-12	3	c
	TWM 1000 W (wall mount version, DS Cable Only)		4	i
	TWM 9000 C (compact design)		C	d
	TWM 9000 F (field mount version)		D	g
	TWM 9000 W (wall mount version)		E	g
	TWM 9000 R (rack mount version)		F	g

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 IV

		Selection	Availability
Lining	Standard - ETFE	0 _ _ _ _	f
	PTFE	1 _ _ _ _	f
	PTFE - provided for protection rings	2 _ _ _ _	n
Electrodes (fixed)	Stainless steel DIN 1.4571 - 316 Ti	_ 1 _ _ _	•
	Hastelloy C4	_ 3 _ _ _	•
	Hastelloy B2	_ 4 _ _ _	•
	Tantalum	_ 5 _ _ _	•
	Titanium	_ 6 _ _ _	•
	Platinum	_ 7 _ _ _	•
	Hastelloy C22 (standard)	_ B _ _ _	•
	Low noise (aluminumoxide) - Base HC22	_ N _ _ _	•
	Low noise (aluminumoxide) - Base DIN 1.4571 - 316 Ti	_ U _ _ _	•
	Construction of electrodes	Fixed	_ _ 1 _ _
Flange Material	Carbon steel St 37-C22 / A 105 flange material	_ _ _ 1 _	k
	Stainless steel DIN 1.4404 - 316 L flange material	_ _ _ 3 _	o
Protection class	IP 66 / 67 standard dimension	_ _ _ 0	•
	IP 68 field standard dimension (only with stainless st. connection box)	_ _ _ 1	e
	IP 68 factory standard dimension (only with stainless st. connection box) (Note 1)	_ _ _ 2	e
	IP 66 / 67 ISO 13359 dimension	_ _ _ 3	•
	IP 68 field ISO 13359 dimension (only with stainless st. connection box)	_ _ _ 4	e
	IP 68 factory ISO 13359 dimension (only with stainless st. connection box) (Note 1)	_ _ _ 5	e

TABLE V

Cable	With TWM Compact converter - no cable / Other converters receive a separate Double Shielded (DS) Cable	0 _	•
	Separate BTS	1 _	•
	Separate LIYCY (only for FM / CSA Class 1 DIV 2)	2 _	j
	Without Cable (replacement sensor only)	Y _	y
Cable length	Compact - none / separate - 5 m - 15 ft	_ 0	•
	10 m - 30 ft	_ 1	•
	15 m - 45 ft	_ 2	•
	20 m - 60 ft	_ 3	•
	25 m - 75 ft	_ 4	•
	30 m - 90 ft	_ 5	•
	40 m - 120 ft	_ 6	•
	50 m - 150 ft	_ 7	•
	100 m - 300 ft	_ 8	•
	Without Cable (replacement sensor only)	_ Y	y

TABLE VI

Calibration	Standard	0 _	•
	Standard with 316 / 1.4401 tagplate (120 x 46 mm) 6 lines, 24 characters each line max.	2 _	•
	Standard with 316 / 1.4401 tagplate (67 x 25 mm) 6 lines, 24 characters each line max.	3 _	•
	Custody transfer	A _	v
	Custody transfer with 316 / 1.4401 tagplate (120 x 46 mm) 6 lines, 24 characters each line max.	C _	v
Ring	Custody transfer with 316 / 1.4401 tagplate (67 x 25 mm) 6 lines, 24 characters each line max.	D _	v
	None	_ 0	•
	Ring #1 Tantalum material	_ 4	m
	Ring #1 Titanium material	_ 5	m
	Ring #1 1.4404 - 316L material	_ 6	•
	Ring #1 Hastelloy C22 material	_ 7	m
	Ring #3 1.4404 - 316L material	_ E	•
	Protection ring #2 1.4404 - 316L material	_ P	•
	Protection ring #2 Hastelloy C22 material	_ R	m
Protection ring #2 Titanium material	_ N	m	

TABLE VII

No Selection	None	0 V _ _	•
Construction requirements	Standard	_ _ 0 _	•
QA / QC	Standard	_ _ _ 0	•

TABLE VIII

No Selection	None	0000	•
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Note 1: IP 68 factory comes with DS/LIYCY or BTS/LIYCY cables.

RESTRICTIONS

Restriction		Available only with	Not available with	
Letter	Table	Selection	Table	Selection
c	II	__ 0 1, __ 0 2, __ _ 1 1, __ 1 2		
	V	0 0		
d	II	__ 1, __ 2		
	V	0 0		
e	II	__ A, __ B, __ C		
f			VI	N, _ P, _ R
g	II	__ 4, __ 5, __ 6, __ A, __ B, __ C		
	IV	__ 5, __ C		
j	II	__ 2, __ 5		
	IV	__ 2, __ 5		
k			II	H 5 __, K 5 __, L 5 __, M 5 __, N 5 __
i	II	__ 0 4, __ 0 5, __ 0 6, __ 0 A, __ 0 B, __ 0 C, __ 1 4, __ 1 5, __ 1 6, __ 1 A, __ 1 B, __ 1 C		
	V	0		
m	II	E __, F __, G __, H __		
	II	__ 2, __ A		
n	VI	__ N, _ P, _ R		
o			II	L 3 __, H 4 __, K 4 __, L 4 __, M 4 __, N 4 __, H 5 __, K 5 __, L 5 __, M 5 __, N 5 __
q	II	__ 4, __ 6, __ A, __ C		
	III	0, D		
	IV	__ 0, __ 2		
	OR			
	II	__ 1		
	III	C		
	IV	__ 0, __ 2		
t	V	0 0		
	II	__ 1, __ 2		
	III	3, C		
	OR	OR		
v	II	__ 4, __ 5, __ 6, __ A, __ B, __ C		
	III	0, 4, D		
v	III	C, D, E	II	N __
y	III	0	II	__ 1, __ 2

Cable Table:

			Length (meters)									
		Table V										
Protection	Table IV	Cable	Table V	_0	_1	_2	_3	_4	_5	_6	_7	_8
			5/ Compact	10	15	20	25	30	40	50	100	
IP 66 / 67	_____0	DS	0_									
IP 68 field	_____1	DS	0_									
IP 68 factory	_____2	DS/LIYCY	0_									
IP 66 / 67	_____0	BTS	1_									
IP 68 field	_____1	BTS	1_									
IP 68 factory	_____2	BTS/LIYCY	1_									
IP 68 factory	_____2	LIYCY/LIYCY	2_									

Flange Table:

				Nominal Pressure								
		Table II	Flange	Table IV	_2_	_3_	_4_	_5_	_A_	_B_	_N_	
DN	Inch	Table II	Flange	Table IV	PN 10	PN 16	PN 25	PN 40	150 lb RF	300 lb RF	JIS 10K	
200	8"	E_	Carbon Steel	___1_								
200	8"	E_	Stainless Steel	___3_								
250	10"	F_	Carbon Steel	___1_								
250	10"	F_	Stainless Steel	___3_								
300	12"	G_	Carbon Steel	___1_								
300	12"	G_	Stainless Steel	___3_								
350	14"	H_	Carbon Steel	___1_								
350	14"	H_	Stainless Steel	___3_								
400	16"	K_	Carbon Steel	___1_								
400	16"	K_	Stainless Steel	___3_								
450	18"	L_	Carbon Steel	___1_								
450	18"	L_	Stainless Steel	___3_								
500	20"	M_	Carbon Steel	___1_								
500	20"	M_	Stainless Steel	___3_								
600	24"	N_	Carbon Steel	___1_								
600	24"	N_	Stainless Steel	___3_								

Liner Table

		Liner			
		Table IV	0_	1_	2_
DN	Inch	Table II	ETFE	PTFE	PTFE Prot Ring
200	8"	E_			
250	10"	F_			
300	12"	G_			
350	14"	H_			
400	16"	K_			
450	18"	L_			
500	20"	M_			
600	24"	N_			

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.

Ring Table: Set of 2				None	Ring #1	Ring #1	Ring #1	Ring #1	Ring #3	Protection ring #2	Protection ring #2	Protection ring #2
Material					Tantalum	316 SS	Hast C22	Titanium	316 SS	316 SS	Hast. C	Titanium
			Table VI	_ 0	_ 4	_ 6	_ 7	_ 5	_ E	_ P	_ R	_ N
DN	Inch	Nom Pressure	Table II	USD	USD	USD	USD	USD	USD	USD	USD	USD
200	8"	PN 10	E 2 __									
		PN 16	E 3 __									
		PN 25	E 4 __									
		PN 40	E 5 __									
		150 lb RF	E A __									
		300 lb RF	E B __									
250	10"	PN 10	F 2 __									
		PN 16	F 3 __									
		PN 25	F 4 __									
		PN 40	F 5 __									
		150 lb RF	F A __									
		300 lb RF	F B __									
300	12"	PN 10	G 2 __									
		PN 16	G 3 __									
		PN 25	G 4 __									
		PN 40	G 5 __									
		150 lb RF	G A __									
		300 lb RF	G B __									
350	14"	PN 10	H 2 __									
		PN 16	H 3 __									
		PN 25	H 4 __									
		150 lb RF	H A __									
		300 lb RF	H B __									

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Ring Table: Set of 2 (cont'd)

Material				None	Ring #1	Ring #1	Ring #1	Ring #1	Ring #3	Protection ring #2	Protection ring #2	Protection ring #2
					Tantalum	316 SS	Hast C22	Titanium	316 SS	316 SS	Hast. C	Titanium
			Table VI	_ 0	_ 4	_ 6	_ 7	_ 5	_ E	_ P	_ R	_ N
DN	Inch	Nom Pressure	Table II	USD	USD	USD	USD	USD	USD	USD	USD	USD
400	16"	PN 10	K 2 __									
		PN 16	K 3 __									
		PN 25	K 4 __									
		PN 40	K 5 __									
		150 lb RF	K A __									
		300 lb RF	K B __									
450	18"	PN 10	L 2 __									
		PN 16	L 3 __									
		PN 25	L 4 __									
		PN 40	L 5 __									
		150 lb RF	L A __									
		300 lb RF	L B __									
500	20"	PN 10	M 2 __									
		PN 16	M 3 __									
		PN 25	M 4 __									
		PN 40	M 5 __									
		150 lb RF	M A __									
		300 lb RF	M B __									
600	24"	PN 10	N 2 __									
		PN 16	N 3 __									
		PN 25	N 4 __									
		PN 40	N 5 __									
		150 lb RF	N A __									
		300 lb RF	N B __									

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