

# Honeywell

## SmartLine®

### VersaFlow Mag 4000

#### MM 41 Size 1/2" to 6"

Section: 14  
Page: 1  
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## Model Selection Guide with Price Data

Model Selection Guide  
36-MM-16-02 Issue 32

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 VIII using the column below the proper arrow. A dot (•) denotes availability.

Table	I	II	III	IV	V	VI	VII	VIII
MM41	4	---	---	---	---	---	---	---

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

KEY NUMBER	Description	Selection	Availability
MM41		MM41	↓

TABLE I - Code Flow Sensor

Flow Sensor	4	•

TABLE II

Nominal Diameter	Nominal Pressure	Approvals	System design	Selection	Availability
DN 10 / 3/8" PTFE DN 15 / 1/2" PTFE DN 20 / 3/4" PTFE DN 25 / 1" PFA DN 32 / 1 1/4" PFA DN 40 / 1 1/2" PFA DN 50 / 2" PFA DN 65 / 2 1/2" PFA DN 80 / 3" PFA DN 100 / 4" PFA DN 125 / 5" PFA DN 150 / 6" PFA	PN 16 EN 1092-1 PN 40 EN 1092-1 ASME B 16.5 150 lb RF ASME B 16.5 300 lb RF JIS 20 K JIS 10 K (DN 50 / 2" - DN 150 / 6")	None EEx zone 1 (Converter TWM 9000 C or F & TWM 1000 C or W) FM Class 1 DIV 2 (Converter TWM 9000 C or TWM 9000 F) CSA Class 1 DIV 2 (Converter TWM 9000 C or TWM 9000 F)	Compact with aluminum converter housing at converter cable mounting Compact with stainless steel converter housing at converter cable mounting Separate with aluminum connection box 1/2" NPT cable mounting Separate with aluminum connection box PF 1/2 cable mounting Separate with aluminum connection box M20 x 1.5 cable mounting Separate with stainless steel connection box 1/2" NPT cable mounting Separate with stainless steel connection box PF 1/2 cable mounting Separate with stainless steel connection box M20 x 1.5 cable mounting	1 --- • 2 --- • 3 --- • 4 --- • 5 --- • 6 --- • 7 --- • 8 --- • A --- • B --- • C --- • D --- •	
				-3 --- • h -5 --- • -A --- • -B --- t -M --- a -N --- b	
				-0 --- • -1 --- p -5 --- q -C --- q	
				-1 --- • -2 --- • -4 --- • -5 --- • -6 --- • -A --- • -B --- • -C --- •	

TABLE III - Converter model

Converter model	Description	Requires a separate MSG # to be entered. Either:	Selection	Availability
Without Converter (replacement sensor only)			0	g
TWM 1000 C (compact design)			3	c
TWM 1000 W (wall mount version, DS Cable Only)			4	l
TWM 9000 C (compact design)		<b>MM90 MSG # 36-MM-16-05;</b>	C	d
TWM 9000 F (field mount version)		<b>MM91 MSG # 36-MM-16-06;</b>	D	g
TWM 9000 W (wall mount version)		<b>MM92 MSG # 36-MM-16-07; or</b>	E	g
TWM 9000 R (rack mount version)		<b>MM95 MSG # 36-MM-16-12</b>	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	0 _ _ _ _	f
	PTFE - Provided for protection rings (DN 15/1/2" - 20/3/4") PFA - provided for protection rings (DN 25/1" - 150/6")	2 _ _ _ _ S _ _ _ _	n n
Electrodes (fixed)	Stainless steel DIN 1.4571 - 316 Ti	_ 1 _ _ _	•
	Stainless steel DIN 1.4401 - 316 (DN10/3/8"...20/3/4")	_ 2 _ _ _	k
	Hastelloy C4	_ 3 _ _ _	•
	Hastelloy B	_ 4 _ _ _	•
	Tantalum	_ 5 _ _ _	•
	Titanium	_ 6 _ _ _	•
	Platinum	_ 7 _ _ _	•
	Hastelloy C22 (standard) Low noise (aluminumoxide) - Base HC22 Low noise (aluminumoxide) - Base DIN 1.4571 - 316 Ti	_ B _ _ _ _ N _ _ _ _ U _ _ _	• • •
Construction of electrodes	Fixed	_ _ 1 _ _	•
Flange Material/ Housing Material	Carbon steel St 37-C22 / A 105 flange material/Steel Housing (DN25/1"...150/6")	_ _ _ 1 _	r
	Stainless steel DIN 1.4404 - 316 L flange material/Steel Housing (DN25/1"...150/6")	_ _ _ 3 _	r
	Carbon steel St 37-C22 / A 105 flange material / DIN 1.4301 - 304 housing material (DN25/1"...150/6" & st. steel conn box)	_ _ _ A _	e
	Carbon steel St 37-C22 / A 105 flange material/Duplex Housing (DN10/3/8"...20/3/4")	_ _ _ U _	k
	Stainless steel DIN 1.4306 - 304 flange material/Duplex Housing (DN10/3/8"...20/3/4") Stainless steel DIN 1.4404 - 316L flange material/Duplex Housing (DN10/3/8"...20/3/4")	_ _ _ V _ _ _ _ W _	k k
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	_ _ _ _ 3	•
	IP 68 field ISO 13359 (only with stainless st. connection box)	_ _ _ _ 4	e
	IP 68 factory ISO 13359 (only with stainless st. connection box) (Note 1)	_ _ _ _ 5	e

TABLE V

Cable	WithTWM Compact converter, no cable / Other converters receive a separate Double Shielded (DS) Cable Separate BTS Separate LIYCY (only for FM / CSA Class 1 DIV 2) Without Cable (replacement sensor only)	0 _ 1 _ 2 _ Y _	• • j 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 465 mm) 6 lines, 24 characters	2 _	•
	Standard with 316 / 1.4401 tagplate (67 x 25 mm) 6 lines, 24 characters	3 _	•
	Custody transfer	A _	v
	Custody Transfer with 316 / 1.4401 tagplate (120 x 46 mm) 6 lines, 24 characters Custody Transfer with 316 / 1.4401 tagplate (67 x 25 mm) 6 lines, 24 characters	C _ D _	v v
Ring	None	_ 0	•
	Ring #1 Tantalum material	_ 4	m
	Ring #1 Titanium material	_ 5	m
	Ring #1 1.4404 - 316L material	_ 6	•
	Ring #1 Hastalloy C22	_ 7	m
	Ring #3 1.4404 - 316L material	_ E	r
	Protection ring #2 Hastalloy C22 material	_ R	m
	Protection ring #2 Titanium material	_ N	m
	Protection ring #2 1.4404 - 316L material	_ P	•

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.

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**RESTRICTIONS**

Restriction		Available only with	Not available with	
Letter	Table	Selection	Table	Selection
a	IV	___ 1 ___	II	1 ___ , 2 ___
b	II	7 ___ , 8 ___ , A ___ , B ___ ___ C ___ , D ___		
	IV	___ 1 ___		
c	II	__ 0 1, __ 0 2, __ _ 1 1, __ 1 2		
	V	0 0		
d	II	___ 1, ___ 2		
	V	0 0		
e			II	1 ___ , 2 ___ , 3 ___
f			VI	R, _ N, _ P
g	II	___ 4, ___ 5, ___ 6, ___ A, ___ B, ___ C		
h	II	8 ___ , B ___ , C ___ D ___		
j	II	___ 5 ___ C		
	IV	___ 2, ___ 5		
k	II	1 ___ 2 ___ 3 ___		
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	4 ___ , 5 ___ , 6 ___		
	II	__ 5 ___ A ___ M ___		
		<b>OR</b>		
	II	7 ___ , A ___		
	II	__ 5 ___ A ___ N ___		
		<b>OR</b>		
	II	8 ___ , B ___ , C ___ D ___		
n	VI	R, _ N, _ P		
	II	___ 1, ___ 2		
p	III	3, C		
		<b>OR</b>		
	II	___ 4, ___ 5, ___ 6, ___ A, ___ B, ___ C		
	III	0, 4, D		
q	II	___ 4, ___ 6, ___ A, __ __ C		
	III	0, D		
	IV	___ 0, ___ 2		
		<b>OR</b>		
	II	___ 1, ___ 2		
	III	C		
	IV	___ 0, ___ 2		
	V	0 0		
r			II	1 ___ , 2 ___ , 3 ___
t			II	8 ___ , C ___
v	III	C, D, E	II	1 ___ , 2 ___ , 3 ___
y	III	0	II	___ 1, ___ 2

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Flange Table:			Flange/Housing						
			Steel/Steel						
			Table IV	1	1	1	1	1	1
				PN16	PN40	150 lb	300 lb	JIS 20 K	JIS 10 K
			Table II	3	5	A	B	M	N
DN	Inch	Table II	USD	USD	USD	USD	USD	USD	USD
10	3/8"	1							
15	1/2"	2							
20	3/4"	3							
25	1"	4							
32		5							
40	1 1/2"	6							
50	2"	7							
65		8							
80	3"	A							
100	4"	B							
125		C							
150	6"	D							
			Stainless Steel/Steel						
			Table IV	3	3	3	3	3	3
				PN16	PN40	150 lb	300 lb	JIS 20 K	JIS 10 K
			Table II	3	5	A	B	M	N
DN	Inch	Table II	USD	USD	USD	USD	USD	USD	USD
10	3/8"	1							
15	1/2"	2							
20	3/4"	3							
25	1"	4							
32		5							
40	1 1/2"	6							
50	2"	7							
65		8							
80	3"	A							
100	4"	B							
125		C							
150	6"	D							
			Steel/Stainless Steel						
			Table IV	A	A	A	A	A	A
				PN16	PN40	150 lb	300 lb	JIS 20 K	JIS 10 K
			Table II	3	5	A	B	M	N
DN	Inch	Table II	USD	USD	USD	USD	USD	USD	USD
10	3/8"	1							
15	1/2"	2							
20	3/4"	3							
25	1"	4							
32		5							
40	1 1/2"	6							
50	2"	7							
65		8							
80	3"	A							
100	4"	B							
125		C							
150	6"	D							

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Flange Table cont:			Flange/Housing						
			Stainless Steel 304/Duplex						
			Table IV	V	V	V	V	V	V
				PN16	PN40	150 lb	300 lb	JIS 20 K	JIS 10 K
			Table II	3	5	A	B	M	N
DN	Inch	Table II	USD	USD	USD	USD	USD	USD	USD
10	3/8"	1							
15	1/2"	2							
20	3/4"	3							
25	1"	4							
32		5							
40	1 1/2"	6							
50	2"	7							
65		8							
80	3"	A							
100	4"	B							
125		C							
150	6"	D							

  

			Stainless Steel 316L/Duplex						
			Table IV	W	W	W	W	W	W
				PN16	PN40	150 lb	300 lb	JIS 20 K	JIS 10 K
			Table II	3	5	A	B	M	N
DN	Inch	Table II	USD	USD	USD	USD	USD	USD	USD
10	3/8"	1							
15	1/2"	2							
20	3/4"	3							
25	1"	4							
32		5							
40	1 1/2"	6							
50	2"	7							
65		8							
80	3"	A							
100	4"	B							
125		C							
150	6"	D							

Cable Table:				Length (meters)								
		Table V		0	1	2	3	4	5	6	7	8
Protection	Table IV	Cable	Table V	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									

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Ring Table: Set of 2												
Material			Table VI	None	Ring #1	Ring #1	Ring #1	Ring #1	Ring #3	Protection ring #2	Protection ring #2	Protection ring #2
					Tantalum	Titanium	316 SS	Hast C22	316 SS	Titanium	316 SS	Hast. C
DN	Inch	Nom Pressure	Table II	_ 0	_ 4	_ 5	_ 6	_ 7	_ E	_ N	_ P	_ R
				USD	USD	USD	USD	USD	USD	USD	USD	USD
10	3/8"	PN 16	1 3 __									
		PN 25	1 4 __									
		PN 40	1 5 __									
		150 lb RF	1 A __									
		300 lb RF	1 B __									
		JIS 20 K	1 M __									
		JIS 10 K	1 N __									
15	1/2"	PN 16	2 3 __									
		PN 25	2 4 __									
		PN 40	2 5 __									
		150 lb RF	2 A __									
		300 lb RF	2 B __									
		JIS 20 K	2 M __									
		JIS 10 K	2 N __									
20	3/4"	PN 16	3 3 __									
		PN 25	3 4 __									
		PN 40	3 5 __									
		150 lb RF	3 A __									
		300 lb RF	3 B __									
		JIS 20 K	3 M __									
		JIS 10 K	3 N __									
25	1"	PN 16	4 3 __									
		PN 25	4 4 __									
		PN 40	4 5 __									
		150 lb RF	4 A __									
		300 lb RF	4 B __									
		JIS 20 K	4 M __									
		JIS 10 K	4 N __									
32	1 1/4"	PN 16	5 3 __									
		PN 25	5 4 __									
		PN 40	5 5 __									
		150 lb RF	5 A __									
		300 lb RF	5 B __									
		JIS 20 K	5 M __									
		JIS 10 K	5 N __									

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**Ring Table: Set of 2 (cont'd)**

Material			Table VI	None	Ring #1	Ring #1	Ring #1	Ring #1	Ring #3	Protection ring #2	Protection ring #2	Protection ring #2
					Tantalum	Titanium	316 SS	Hast C22	316 SS	Titanium	316 SS	Hast. C
			_ 0	_ 4	_ 5	_ 6	_ 7	_ E	_ N	_ P	_ R	
40	1 1/2"	PN 16	6 3 __									
		PN 25	6 4 __									
		PN 40	6 5 __									
		150 lb RF	6 A __									
		300 lb RF	6 B __									
		JIS 20 K	6 M __									
		JIS 10 K	6 N __									
50	2"	PN 16	7 3 __									
		PN 25	7 4 __									
		PN 40	7 5 __									
		150 lb RF	7 A __									
		300 lb RF	7 B __									
		JIS 20 K	7 M __									
		JIS 10 K	7 N __									
65		PN 16	8 3 __									
		PN 25	8 4 __									
		PN 40	8 5 __									
		150 lb RF	8 A __									
		300 lb RF	8 B __									
		JIS 20 K	8 M __									
		JIS 10 K	8 N __									
80	3"	PN 16	A 3 __									
		PN 25	A 4 __									
		PN 40	A 5 __									
		150 lb RF	A A __									
		300 lb RF	A B __									
		JIS 20 K	A M __									
		JIS 10 K	A N __									
100	4"	PN 16	B 3 __									
		PN 25	B 4 __									
		PN 40	B 5 __									
		150 lb RF	B A __									
		300 lb RF	B B __									
		JIS 20 K	B M __									
		JIS 10 K	B N __									

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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
			Table VI _ 0	Tantalum _ 4	Titanium _ 5	316 SS _ 6	Hast C22 _ 7	316 SS _ E	Titanium _ N	316 SS _ P	Hast. C _ R
125		PN 16	C 3 __								
		PN 25	C 4 __								
		PN 40	C 5 __								
		150 lb RF	C A __								
		300 lb RF	C B __								
		JIS 20 K	C M __								
		JIS 10 K	C N __								
150	6"	PN 16	D 3 __								
		PN 25	D 4 __								
		PN 40	D 5 __								
		150 lb RF	D A __								
		300 lb RF	D B __								
		JIS 20 K	D M __								
		JIS 10 K	D N __								

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