

# بویین شیر یرقی آسکو

MODEL : 400425



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# SOLENOIDS, COILS & ACCESSORIES

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**J**

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<sup>(1)</sup> Consult our other catalogues at: [www.asconumatics.eu](http://www.asconumatics.eu)

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V1100-1

**COIL CHARACTERISTICS**

Coils in the catalogue pages are identified by their electrical characteristics such as:

- "Coil insulation class", generally F or H;
- Type of "Connector", mostly with a spade plug or flying lead;
- "Connector specification" with applicable standards;
- "Electrical safety" to IEC 335 / EN 60730-1 standard
- "Electrical enclosure protection": epoxy moulded coil and ingress protection rating of, generally, IP65 or IP67 to EN 60529/ IEC 529
- Available "Standard voltages": for details see "Standard voltages" on the following page;

A table with:

**- "power ratings" (Pn):**

For alternating current (~),

- . the **inrush** power expressed in VA (Volt-Amps),
- . the **holding** power expressed in VA and W,

For direct current (-) coils,

- . the power rating in the **hot** state (coil under continuous duty) and in the **cold** state (at inrush of power)

- The min./max. values of the solenoid **operator ambient temperature range** (including the influence of the fluid temperature within the minimum and maximum limits given on the catalogue pages).

Example:

prefix option	power ratings				operator ambient temperature range (TS) (C°)	replacement coil		type (1)
	inrush ~ (VA)	holding ~ (W)		hot/cold = (W)		~	=	
		(VA)	(W)					
SC	34	15,6	6	7 / 9,7	-20 to + 75	400325-117	400325-142	01
	30	22,5	9	9,5/15,3	-20 to + 50	400325-217	400325-242	01

**COIL IDENTIFICATION**

ASCO offers coils in the following main sizes:

- XM5, M6, MXX, M12
- CM22, C22, C22A, C25A, CM25, JMX, ANX, AMX, BMX

Please note: Posiflow solenoid valves (Section B) have special coils, please contact us for details.

Coil sizes can be identified from the power ratings given in the table under "Electrical characteristics" on the catalogue pages.

For an example, see Section C, page V313:

prefix option	power ratings				operator ambient temperature range (TS) (C°)
	inrush ~ (VA)	holding ~ (W)		hot/cold = (W)	
		(VA)	(W)		
SC	5	23	<b>10,5</b>	9/ <b>11,2</b>	-20 to + 75
	78	35	<b>16,7</b>	-	-20 to + 50
	110	33,6	<b>15,4</b>	-	-20 to + 75
	240	43	<b>20</b>	16,8/ <b>23</b>	-20 to + 50

See corresponding values in the table of AC nominal power ratings

See corresponding cold-state values in the table of DC nominal power ratings

The nominal power ratings (Pn) on the catalogue pages are indicated in bold letters (see tab. A). They allow you to identify the coil size.

power ratings (Pn) <b>tab. A</b>														
holding power (W)						cold state (W)								
alternating current (AC) ~						direct current (DC) =								
Pn (W)	solenoid size					Ref. (2)	Pn (W)	solenoid size					Ref. (2)	
	XM5	M6	MXX	M12	CM22			C22A	C25A	CM25	JMX	ANX		AMX
insulation class F (155°C)						insulation class F (155°C)								
1,2 (1)							1,3							
1,5 (1)							1,7							
1,5 (1)							1,8							
2,5							3							
2,5 (7)							3 (7)							
3,5 (11)							3 (10)							
3,7 (1)							3,6							
4 (4)							5,5 (4)							
4							5,7							
4 (8)							6,9 (8)							
5 (9)							6,9 (9)							
5,8 (1)							6,9							T
6							7 (11)							
6 (3)							8,6							
6 (3)							9 (6)							
6,3							9,7							T
8 (6)							10,7							
8 (9)							10,8 (5)							T
8,1 (12)							11							
9							11,2							T
10 (1)							11,6 (12)							T
10,1 (12)							14							
10,5							15,3							B
10,8 (1)							16,8							
11,1 (12)							19,7							F
13,4 (1)							23							B
15,4														
16,5														
16,7														
17,1 (12)														
20														
insulation class H (180°C)						insulation class H (180°C)								
4 (4)							5,5 (4)							
6							9,7							
9							10,6 (12)							T
10,5							11,2							
15,4							11,6 (12)							T
16,7							13,3							
20							15,3							
							16,8							
							17,4							
							18,6 (12)							B
							19,7							
							20,8							
							22,6 (12)							B
							23							
							26,6							
							29,5							

- 1) Rectified coil construction.
- 2) Additional reference identification letter for coil types: XM5, M6, MXX, M12 (Example: FT, FB, FF, HT)
- 3) Section H, series 340, page V901-21
- 4) Series 238 (...C..., page V316) and 256/356 1/8-1/4
- 5) Section C/series 272 and Section E/series 374-370
- 6) Section C/series 238, page V316
- 7) Section C/series 108, page V295; Sect. D/series 189/banjo, page V439; Sect. E/series 189-109, pages V585-V590.
- 8) Section C/series 238, page V316 (type 01)
- 9) Series 552/553
- 10) Section E/series 189, page V585 (type 06): M12 connection
- 11) Series 238 (...C..., page V316) and 256/356 1/4
- 12) Series 262/263/314 (pages V223/V253/V542)

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## COIL IDENTIFICATION

400 0 0 0 - 0 0 0 - D Z

400 ← BASIC NUMBER

0	1	2 (**)	3	4	5	6	7	8	9
	CM22 (XM5)	CM5	M6	MXX	M12 AC	M12 DC			(*)

← SIZE

0	1	2	3	4	5	6	7	8	9
embedded screw terminals	leaded	spade plug connection	spade terminal	leaded with ground wire	PV cable end				

← TYPE / TERMINATION

0	1	2	3	4	5	6	7	8	9
		A	E	B	F	H			(*)

← INSULATION CLASS

0	1	2	3	4	5	6	7	8	9
-	T	B	F	C	P	I			

← TEMPERATURE CLASS

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
12	24	26	36	42	48	64	110	120	127	220	240	380	415	440	100	200	230	115	400

← 50 Hz

20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
12	24	42	48	100	120	208	220	240	380	550	480	110	200	230					

← 60 Hz

40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
6	12	24	32	48	60	64	100	110	120	125	180	187	220	240	250				

← DC (=) VOLTAGE

60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
21.6 DC	99 DC	207 DC																	

← SPECIAL

80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
12	24	26	36	42	48	64	110	120	127	220	240	380	415	440	100	200	230	115	400

← 50-60 Hz bifrequency

A	B	C	D	E	F	G	H	J	K
			457						1829
			18						72

← CABLE LENGTH (mm) / (inch)

Standard  
 (\*) Customer special (these coils deviate from the identification system)  
 (\*\*) Obsolete

Z
UL

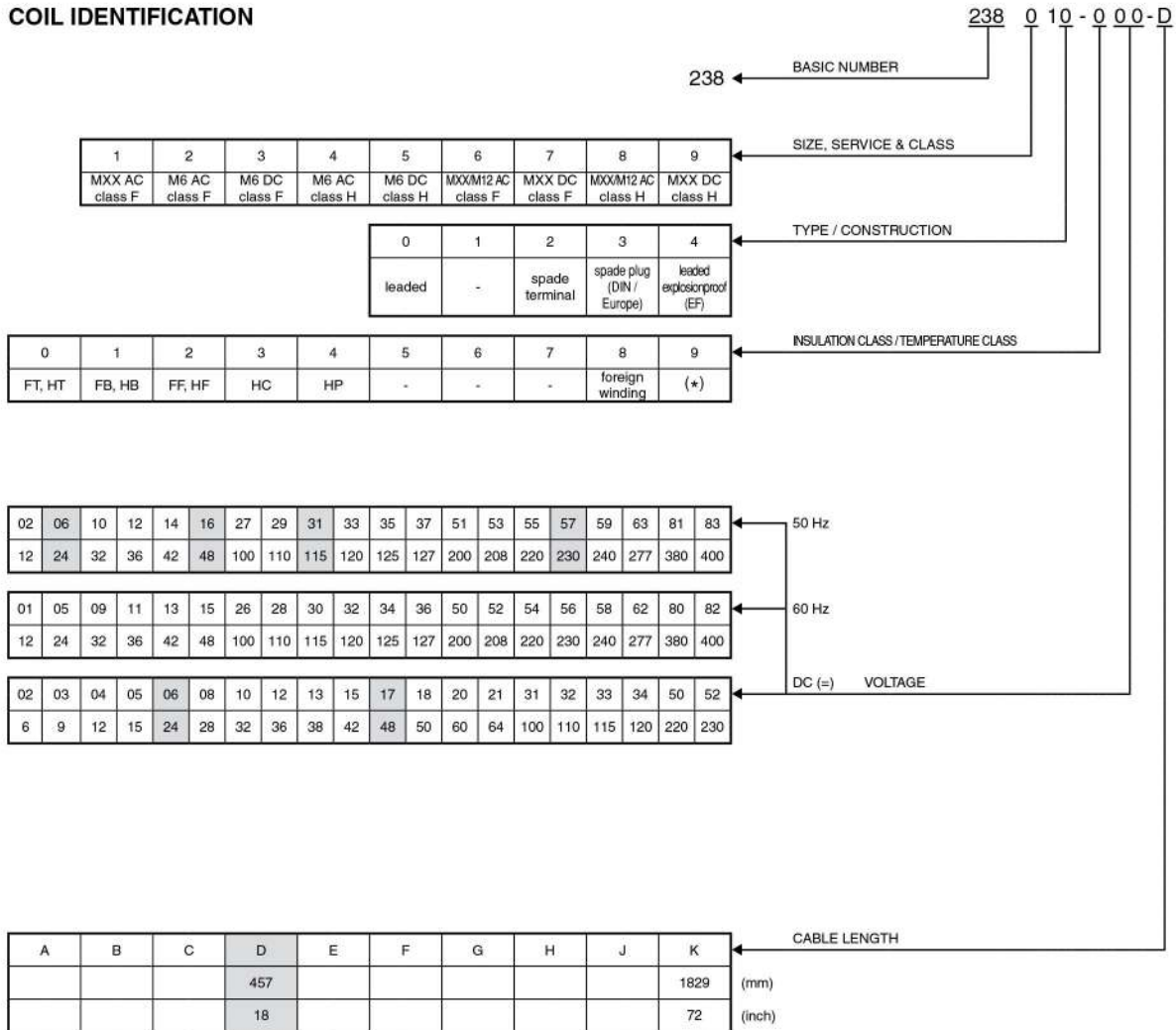
← UL STANDARDS

## CATALOGUE NUMBERS OF REPLACEMENT COILS

	24 V =	48 V =	24 V ~	48 V ~	115 V ~	230 V ~
CM6-FT	400325-142	400325-144	400325-101	400325-105	400325-118	400325-117
CM6-FB	400325-242	400325-244	400325-201	400325-205	400325-218	400325-217
CMXX-FT	400425-142	400425-144	400425-101	400425-105	400425-118	400425-117
CMXX-FB	-	-	400425-201	400425-205	400425-218	400425-217
CMXX-FF	400425-342	400425-344	-	-	-	-
CM12-FT	400625-142	400625-144	400525-101	400525-105	400525-118	400525-117
CM12-FB	400625-242	400625-244	400525-201	400525-205	400525-218	400525-217

EMBEDDED SCREW TERMINAL COIL Example: 400505-110 SM12-FT-220/50	SPADE PLUG CONNECTION COIL Example: 400425-342 CMXX-FF-24 DC	LEADED COIL (2 LEADS) Example: 400315-111D LM6-FT-240/50-457 mm	LEADED COIL WITH GROUND WIRE Example: 400145-201D LM22-FB-24/50- 457 mm
			

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**COIL IDENTIFICATION**


Standard  
(\*) Customer special

**CATALOGUE NUMBERS OF REPLACEMENT COILS**

	24 V =	48 V =	24 V ~	48 V ~	115 V ~	230 V ~
M6-HT	238513-006	238513-017	-	-	-	-
M6-FT	-	-	238213-006	238213-016	238213-033 <sup>(b)</sup>	238213-059 <sup>(a)</sup>
M6-HB	238513-106	238513-117	-	-	-	-
M6-FB	-	-	238213-106	238213-116	238213-133 <sup>(b)</sup>	238213-157
MXX-HT	238913-006	238913-017	-	-	-	-
MXX-FT	238713-006	238713-017	238613-006	238613-016	238613-033 <sup>(b)</sup>	238613-059 <sup>(a)</sup>
MXX-HB	238913-106	238913-117	-	-	-	-
MXX-FB	-	-	238613-106	238613-116	238613-133 <sup>(b)</sup>	238613-159 <sup>(a)</sup>

<sup>(a)</sup> 230 V/50 Hz - 250 V/50 Hz  
<sup>(b)</sup> 115 V/50 Hz - 120 V/50 Hz

<b>SPADE PLUG CONNECTION COIL</b> Example: 238513-006 CM6-HT-24 DC	<b>SPADE PLUG CONNECTION COIL</b> Example: 238613-059 CMXX-FT-230 AC
	

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**CATALOGUE NUMBERS OF REPLACEMENT COILS**

solenoid valve series	coil type	alternating current , AC (~) 50 Hz					direct current , DC (=)			
		24 V	48 V	115 V	230 V	240 V	12 V	24 V	48 V	110 V
189	C22A - 2,5 W	43004416 (☼)	43004417 (☼)	43004419 (☼)	43004422 (☼)	43004423 (☼)	43004149	43004166	43004167	43004168
	C22-2,5 W-M12	-	-	-	-	-	-	43005523	-	-
256 - 356 (1/8-1/4) 238 G3/8 to 1	CM22-4W/6,9W F	400127-181 (☼)	400127-185 (☼)	400127-198 (115V/50-120V/60)	400127-197 (☼)	-	400127-141	400127-142	400127-144	400127-148
108 - 109 - 189 banjo - 551	CM22 - 2,5/3 W	400127-081 (☼)	400127-085 (☼)	400127-098 (115V/50-120V/60)	400127-097 (☼)	400127-091 (☼)	400904-541	400904-542	400904-544	400904-548
256 - 356 (1/4) 238 G3/8 to 1 552/553	CM25-5W/6,9W F	400727-181 (☼)	400727-185 (☼)	400727-118 (115V/50)	400727-117 (130V/50)	-	400727-181	400727-185	400727-118	400727-117
238 G1 1/4 to 2	ANX - 7,5 W	43005273	-	43005274	43005275	-	43005271	43005272	-	43005398
240	AMX - 9 W	43005153	-	43005155	43005157	-	-	-	-	-
	BMX - 6 W	43005168	-	43005169	43005171	-	-	-	-	-
272 - 374	JMX	43005090	43005091	43005093	43005096	-	43005098	43005099	43005100	43005101
121 MB 231 - 232	screw terminals 12 W	43002425	43002433	43002442	43002449	43002451	-	43001995	43002003	43002076
131 3/2 131 3/2 ATEX Ex d 231 ET - 232 ET, Ex d	MPV1 (~) 15 W	43002566	43002574	43002583	43002591	-	-	-	-	-
	CPV1 (=) 24 W	-	-	-	-	-	-	43002124	43002132	43002141
231 ET - 232 ET	MPV1 (~)	43002566	43002574	43002583	43002591	-	-	-	-	-
	CPV1 (=) 80 W	-	-	-	-	-	-	43002197	43002203	43002212
131 4/2 131 4/2 ATEX Ex d	MPV1 (~) 20 W	43002641	43002648	43002657	43002665	-	-	-	-	-
	CPV1 (=) 24 W	-	-	-	-	-	-	43002124	43002132	43002141
126 , ATEX Ex d	18 W / 15 W	43004028	43004036	43004045	43004053	43004054	-	43002091	43002098	43004408
126 reset version, ATEX Ex d	18 W / 10 W	43004028	43004036	43004045	43004053	43004054	-	43002092	43004407	43004409
121 MB - 231 - 232 ATEX Ex d	12W / 10 W	43002496	43002504	43002513	43002521	-	43002055	43002059	43002067	43002076
PV-EM5, ATEX Ex mb 256-356 (1/8-1/4; except manifold) 238 G3/8 to 1 (.....C...) 189-189 banjo 551 (TPL 20787)	4 W AC/ 2 m 3W DC 4 m	43005348PV (☼)	43005349PV (☼)	43005350PV (☼)	43005352PV (☼)	-	-	43005366PV	43005367PV	-
	2 m	43005355PV	43005356PV	43005357PV	43005359PV	-	-	43005595PV	-	-
	6,3 W AC/ 4 m 6,9W DC	-	-	-	-	-	-	43005371PV	-	-
	6 m	-	-	-	-	-	-	43005593PV	-	-
		-	-	-	-	-	-	43005594PV	-	-
<b>V1067 (see section I, pages 1 and 2) ATEX II 3D IP65, DU:</b>										
189	CM22 - 2,5 W DU	43004416DU (☼)	43004417DU (☼)	43004419DU (☼)	43004422DU (☼)	43004423DU (☼)	43004149DU	43004166DU	43004167DU	43004168DU
256 <sup>(1)</sup> (1/8-1/4) - 356 <sup>(1)</sup> (1/8) (.....A...)	C22A F	43005421DU (☼)	43005423DU (☼)	43005425DU	43005429DU (☼)	-	43005411DU	43005413DU	43005415DU	43005417DU
238 G3/8 to 1 (.....C...)	4/5,5W H	43005445DU (☼)	43005447DU (☼)	43005449DU	43005453DU (☼)	-	43005435DU	43005437DU	43005439DU	43005441DU
108 - 109 - 189 banjo - 551	CM22 - 2,5 W DU	43004878DU (☼)	43004879DU (☼)	43004884DU (☼)	43004886DU (☼)	43004887DU (☼)	43004867DU	43004869DU	43004873DU	43004875DU
552/553 - 256/356 (3,5/7 W) 1/4 238 G3/8 to 1 (3,5/7 W) (.....C...)	CM25 - 5 W DU	43004646DU (☼)	43004647DU (☼)	43004648DU	43004649DU	-	43004646DU	43004647DU	43004648DU	43004649DU

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(☼) Bifrequency 50/60 Hz.

<sup>(1)</sup> Except for manifold-mount versions.

SPADE PLUG CONNECTION COIL Example: CM22-4/6,9W series 551, 256, 356, 238	SPADE PLUG CONNECTION COIL Example: JMX series 272, 374, 370	SPADE PLUG CONNECTION COIL Example: CM25-5/6,9W series 238 - 256/356 1/4	COIL WITH SCREW TERMINALS Example: ATEX, Ex d housing
			

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V1100-6



# علی صنعت

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و تمامی حقوق برای شرکت علی صنعت محفوظ میباشد

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