

Sub-base non "plug-in" Sub-base "plug-in" Sub-base "plug-in" with latching solenoid Manifold mounting Sub-base/ manifold base manifold bas

32

37 38 52

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93

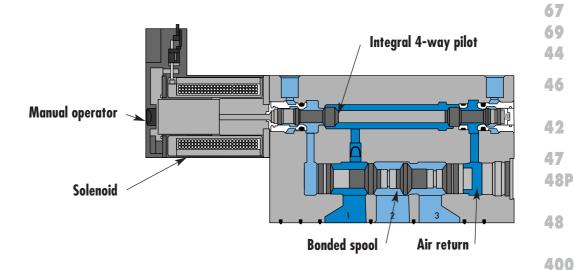
ISO 01

ISO 02

ISO 1

ISO 2

ISO 3



SERIES FEATURES

- High force MACSOLENOID®.
- Integral 4-way pilot design.
- Internal or external pilot.
- Normally open or normally closed function.
- Universal function (external pilot).
- Rectified AC voltage.
- Latching solenoid technology.



Function	Port size	Floш (Max)	Individual mounting	Series
3/2 NO-NC	1/8"	1.2 C _V	Sub-base non "plug-in"	

OPERATIONAL BENEFITS

- 1. 3-way valve with 4-way integral pilot.
- 2. 10 mm valve (stacks on 16.5 mm centers).
- 3. High flow (up to 1.2 Cv).
- 4. Fast, repeatable response times.
- 5. Maximum shifting forces in both directions.



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48P

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ISO 01

ISO 02 **ISO** 1 **ISO 2 ISO 3**

	ORDER

Port size Pilot air		NO valve	NC valve	Universal valve	
				10 2 12 10 3 51	
Valve less base	Internal	38B-BMA-000-G xxx-xxx	38B-AMA-000-Gxxx-xxx		
	External	38B-BMB-000-G xxx-xxx	38B-AMB-000-Gxxx-xxx	38B-GMB-000-G <i>xxx-xxx</i>	
1/8" NPTF	Internal	38B-BMA-AAL-G xxx-xxx	38B-AMA-AAL-Gxxx-xxx	-	
	External	38B-BMB-AAM-Gxxx-xxx	38B-AMB-AAM-Gxxx-xxx	38B-GMB-AAM-Gxxx-xxx	

Note: Above codes are for side port.

STANDARD SOLENOID OPERATOR >

XX	Voltage	Х	Wire length	X	Manual operator
AA	120 VAC (2.5W)	Α	18"	1	Non-locking recessed
DA	24 VDC (1.0W)	В	24"	2	Locking recessed
DC	24 VDC (1.8W)	С	36"		
DD	24 VDC (2.5W)				
DF	24 VDC (4.0W)	_			

Note: AC voltage requires connector with rectitier.

Other options available, see page 311.
Latching solenoid also available, see page 59.
With MAC JAC electrical connector washdown capability is possible.
Consult factory for modification number.

OPTIONS

Pilot/Base	oO e	nfiguratio	on:
38B- x N	X-X	x-Gxxx	-xxx
			Individual base – Side port Individual base – Bottom port
			Pilot exhaust muffled Pilot exhaust piped (# 10-32) Pilot exhaust to main exhaust

	70.				
BA	Flying leads				
BT	Flying leads with light				
GA	MAC JAC Solenoid plug-in				
GB	MAC JAC Solenoid plug-in w/Diode				
GC	MAC JAC Solenoid plug-in w/MOV				
GD	MAC JAC Solenoid plug-in w/LED				
GE	MAC JAC Solenoid plug-in w/Diode & LED				
GF	MAC JAC Solenoid plug-in w/MOV & LED				
GG	MAC JAC Solenoid plug-in w/Rectifier				
GH	MAC JAC Solenoid plug-in w/Rectifier & LED				
KA	Plug-in wire assembly				
KT	Plug-in wire assembly with light				
KD	Plug-in wire assembly with rectifier & light & ground				

Electrical connection







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal Pilot: 20 to 120 PSI

External Pilot: Vacuum to 120 PSI

Pilot pressure: 20 to 120 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)

Filtration: 40 µ

Temperature range: 0°F to 120°F (-18°C to +50°C)

Flow: 1/8" bottom port: $(1.2 \, \text{C}_{v}) - 1/8$ " side port: $(1.0 \, \text{C}_{v})$

Class A wire (#22 AWG x 18), continuous duty

Voltage range: -15% to +10% of nominal voltage

Power: 1.0 to 4.0 W

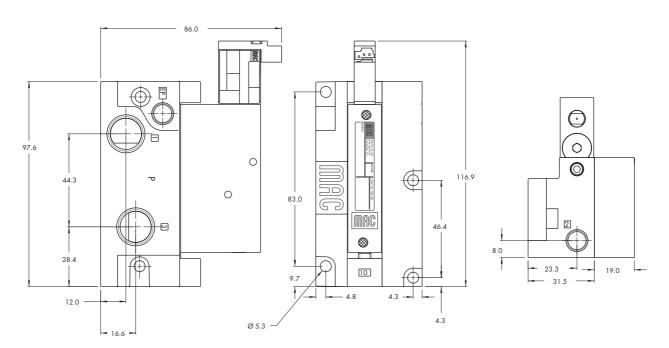
Response times : Energize : 6 ms

(with 4 W coil) De-energize: 6 ms

Options : • BSPP threads

DIMENSIONS

Dimensions shown are metric (mm)





Function		Port size	Flow (Max)		Individual	l mounting	Series
3/2 NO-NC		1/8" - 1/4" O.D. tube receptacle	1.2 C _V		Sub-base "plug-in"		
OPERATIONAL BENEFITS							33
1. 3-way valve with 4-wa							34
2. 10 mm valve (stacks o 3. High flow (up to 1.2 C		nters).					0 T
4. Fast, repeatable respo	nse times.						36
5. Maximum shifting forc	es in both direc	ctions.					
					-	· Control	32
							27
							37
					-4		38
							52
HOW TO ORDER							67
Port size	Pilot air	NO valve		NC valve		Universal valve	69
		2		2		2	44
				10 7 32	2 	10 12	46
Valve less base	Internal	38B-BMA-000-G xx P-	-xxx	▼3 	rP- xxx	<u> </u>	40
	External	38B-BMB-000-G xx P-	XXX	38B-AMB-000-G xx	P- xxx	38B-GMB-000-GxxP-xxx	
1/8" NPTF	Internal	38B-BMA-AAA-G xx P	-xxx	38B-AMA-AAA-G x	xP-xxx		42
	External	38B-BMB-AAB-GxxP-		38B-AMB-AAB-GXX		38B-GMB-BAB-G xx P- xxx	47
1/4" O.D. Tube receptacle	Internal External	38B-BMA-EAA-GxxP		38B-AMA-EAA-GXX			
		JOB-DIVID-LAD-GAAT		JOB-AMB-LAD-GAA	1 - 7.7.7		48P
Note: Above codes are for STANDARD SOLENCE		OR >	G XX P.	·vvv*			4.0
STAINDAND SOLEING	JID OI LIKAT			<u> </u>			48
XX Voltage AA 120 VAC (2.5	\\/\		lanual oper on-locking recess		XX SA	Electrical connection Base plug-in	400
DA 24 VDC (1.0W	V)		cking recessed	eu	SJ	Base plug-in with light	92
DD 24 VDC (1.8W						Base plug-in with rectifier & light & ground	72
DF 24 VDC (4.0W		.efe					0.0
Note: AC voltage requires * Other options available	, see page 311.						93
Latching solenoid also avai	ılable, see page	61.					ISO 01
OPTIONS							ISO 02
Pilot/Base Configuration	:						
38B- xM x- xA x-Gxx P-x							ISO 1
A In	dividual base –	Side port					150 2
	dividual base –	•					ISO 3
P Pi	lot exhaust muff lot exhaust pipe	d (# 10-32)					
U Pi	lot exhaust to m	aın exhaust					

Washdown capability is possible, consult factory for modification number.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal Pilot: 20 to 120 PSI

External Pilot: Vacuum to 120 PSI

Pilot pressure: 20 to 120 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)

Filtration: 40 µ

Temperature range : 0°F to 120°F (-18°C to +50°C)

Flow: 1/8" bottom port: $(1.2 \, \text{C}_{\text{v}})$ - 1/8" side port: $(1.0 \, \text{C}_{\text{v}})$ - 1/4" tube receptacle: $(0.85 \, \text{C}_{\text{v}})$

Coil: Class A continuous duty, #22 AWG x 12 base leads

-15% to +10% of nominal voltage Voltage range:

Power: 1.0 to 4.0 W

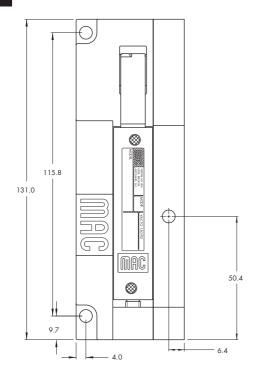
Response times: Energize : 6 ms

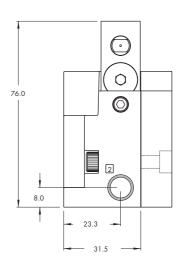
(with 4 W coil) De-energize : 6 ms

• BSPP threads Options :

DIMENSIONS

Dimensions shown are metric (mm)







Function	Port size	Flow (Max)	Manifold mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	1.2 C _V	Manifold base "plug-in"	

OPERATIONAL BENEFITS

- 1. 3-way valve with 4-way integral pilot.
- 2. 10 mm valve (stacks on 16.5 mm centers).
- 3. High flow (up to 1.2 $C_{\rm V}$).
- 4. Fast, repeatable response times.
- 5. Maximum shifting forces in both directions.



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ISO 01 ISO 02

ISO 1

ISO 2

ISO 3

HOW TO ORDER

Port size	Pilot air NO valve		NC valve	Universal valve
		10 2 12	10 2 12 10 3 01	10 2 12 10 3 01
Valve less base	Internal	38B-BMA-000-G xx P- xxx	38B-AMA-000-G xx P- xxx	
	External	38B-BMB-000-G xx P- xxx	38B-AMB-000-G xx P- xxx	38B-GMB-000-G xx P- xxx
1/8" NPTF	Internal	38B-BMA-AJA-G xx P- xxx	38B-AMA-AJA-GxxP-xxx	
	External	38B-BMB-AJB-G xx P- xxx	38B-AMB-AJB-G xx P- xxx	38B-GMB-BJB-GxxP-xxx
1/4" O.D.	Internal	38B-BMA-EJA-G xx P- xxx	38B-AMA-EJA-GxxP-xxx	
Tube receptacle	External	38B-BMB-EJB-G xx P- xxx	38B-AMB-EJB-GxxP-xxx	38B-GMB-EJB-G xx P- xxx

Note: Above codes are for side port.

STANDARD SOLENOID OPERATOR >

G	XX	P-XXX

XX	Voltage	X	Manual operator	XX	Electrical connection
AA	120 VAC (2.5W)	1	Non-locking recessed	SA	Base plug-in
DA	24 VDC (1.0W)	2	Locking recessed	SJ	Base plug-in with light
DC	24 VDC (1.8W)			55	Base plug-in with rectifier & light & ground
DD	24 VDC (2.5W)				
DF	24 VDC (4.0W)				

OPTIONS

Base only:

38B-000-xxx (i.e. 38B-000-AJA)

Base Configuration:

38B-xxx-xJx-Gxx P-xxx

- J Manifold base Side port
 K Manifold base Bottom port
 L Left end manifold base Side port
 M Left end manifold base Bottom port
 N Right end manifold base Side port
 P Right end manifold base Bottom port

Note: Manifold assemblies consist of (1) left end manifold, (1) right end manifold and middle station manifolds (options "J" or "K").

Note: AC voltage requires connector with rectifier.

* Other options available, see page 311.
Latching solenoid also available, see page 61.
Washdown capability is possible, consult factory for modification number.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal Pilot: 20 to 120 PSI

External Pilot: Vacuum to 120 PSI

Pilot pressure: 20 to 120 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)

Filtration: 40 µ

Temperature range: 0°F to 120°F (-18°C to +50°C)

Flow: 1/8" bottom port: $(1.2 \text{ C}_{\text{v}}) - 1/8$ " side port: $(1.0 \text{ C}_{\text{v}}) - 1/4$ " tube receptacle: $(0.85 \text{ C}_{\text{v}})$

Class A continuous duty, #22 AWG x 12 base leads

Voltage range: -15% to +10% of nominal voltage

Power: 1.0 to 4.0 W

Response times : Energize : 6 ms

(with 4 W coil) De-energize : 6 ms

Options : • BSPP threads

DIMENSIONS Dimensions shown are metric (mm) 1/8" COMMON EXT. PILOT — 115.8 TYP. 131.0 0 0 ⊗ ⊗ 107.1 0 51.5 **①** 0 0 0 28.4 0 0 \circ)((°) 0 12.0 0 0 0 0 23.3 - 3/8" IN & EXH - 29.5 -— 33.5 — 1/8" TAPPED OR 1/4" O.D. TUBE FITTING 23.3 1/8" TAPPED OR 1/4" O.D. TUBE FITTING



Function	Port size	Flow (Max)	Individual/Manifold mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	1.2 C _v	Sub-base/ manifold base non "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

- 1. 3-way valve with 4-way integral pilot.
- 2. 10 mm valve (stacks on 16.5 mm centers).
- 3. High flow (up to 1.2 $C_{\rm V}$).
- 4. Fast, repeatable response times.
- 5. Maximum shifting forces in both directions.



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ISO 01

ISO 02

ISO 1

ISO 2 ISO 3

	ORDER

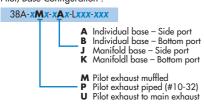
Port size	ort size Pilot air NO valve NC valve		NC valve	Universal valve
			10 2 12 17D 7 12 173 51	
Valve less base	Internal	38A-BMA-000-L xxx-xxx	38A-AMA-000-L xxx-xxx	
	External	38A-BMB-000-L xxx-xxx	38A-AMB-000-L xxx-xxx	38A-GMB-000-L xxx-xxx
1/8" NPTF	Internal	38A-BMA-AAL-Lxxx-xxx	38A-AMA-AAL-L xxx-xxx	
	External	38A-BMB-AAM-Lxxx-xxx	38A-AMB-AAM-Lxxx-xxx	38A-GMB-AAM-Lxxx-xxx
1/4" O.D.	Internal	38A-BMA-EAL-Lxxx-xxx	38A-AMA-EAL-Lxxx-xxx	
Tube receptacle	External	38A-BMB-EAM-Lxxx-xxx	38A-AMB-EAM-Lxxx-xxx	38A-GMB-EAM-Lxxx-xxx

Note: Above codes are for individual base and side port.

LATCHIN	ng solenoid ope	RATOR ➤	L	XXX-XXX	<u><</u> *		
				<u> </u>			
XX	Voltage	X	Wire length	Х	Manual operator	XX	Electrical connection**
DF	24 VDC (4.0W)	A	18"	0	No operator	BA	2 Wire Flying leads
HA	24 VDC (1.95W)	В	24"		·	BJ	4 Wire Flying leads
•		С	36"			KA	2 Wire Plug-in Assembly
						KE	4 Wire Plug-in Assembly
						LA	3 Wire plug-in assembly (Polarity Switching Cover)

OPTIONS

Pilot/Base Configuration :



Note: Manifold assemblies require an end plate kit:

M-38003-01-01 (internal pilot) M-38003-02-01 (external pilot)

^{*} Other options available, see page 319.
** Latching 38 series with non plug-in base configuration must use "B", "K" or "L" type electrical connector.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal Pilot: 20 to 120 PSI

External Pilot: Vacuum to 120 PSI

Pilot pressure: 20 to 120 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)

Filtration: 40 µ

Temperature range: 0°F to 120°F (-18°C to +50°C)

Flow: 1/8" bottom port: $(1.2 \, \mathrm{C_v})$ - 1/8" side port: $(1.0 \, \mathrm{C_v})$ - 1/4" tube receptacle: $(0.85 \, \mathrm{C_v})$

Coil: Class A wires (#22 AWG x 18), continuous duty

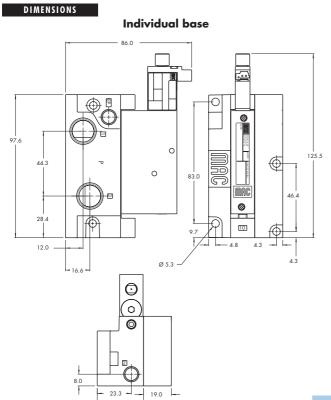
-15% to +10% of nominal voltage

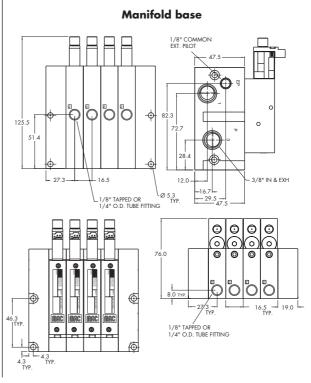
Voltage range:

1.95 to 4.0 W Power:

Response times: Energize : 6 ms (with 4 W coil) De-energize : 6 ms

• BSPP threads Options :







Function	Poi	t size	Flow (Max)		Individua	I/Manifold mounting	Series
3/2 NO-NC	,	8" = '4" O.D. tube receptacle	1.2 C _V		Sub-base, manifold be "plug-in" with latchi solenoid	ise	
OPERATIONAL BENEFITS							33
1. 3-way valve with 4-wa		-1				1727	34
 10 mm valve (stacks o High flow (up to 1.2 C Fast, repeatable respo Maximum shifting force 	C _V). onse times.						36
						390	32
							37
					- 4	200	38
							52
HOW TO ORDER							67
Port size	Pilot air	NO valve		NC valve		Universal valve	69
		2		2		2	44
					12 171		46
Valve less base	Internal	38A-BMA-000-L xx P- x	<u> </u>	38A-AMA-000-L x	xP-xxx	∀3 ∘1	- 40
	External	38A-BMB-000-L xx P- x x	(X	38A-AMB-000-L x	xP-xxx	38A-GMB-000-LxxP-xxx	- 40
1/8" NPTF	Internal	38A-BMA-AAA-LxxP-x		38A-AMA-AAA-Lx		004 040 440 40	42
1/4" O.D.	External Internal	38A-BMB-AAB-LxxP-xx 38A-BMA-EAA-LxxP-xx		38A-AMB-AAB-L x 38A-AMA-EAA-L x		38A-GMB-AAB-LxxP-xxx	47
Tube receptacle	External	38A-BMB-EAB-LxxP-xx		38A-AMB-EAB-Lx		38A-GMB-EAB-LxxP-xxx	48P
Note : Above codes are fo	r individual base ar	nd side part					_
LATCHING SOLENC			L <u>xx</u> P-	XXX [*]			48
				J			
XX Voltage		X Ma	nual opera	ator	XX	Electrical connection**	400
DF 24 VDC (4.0W		0 No (operator		DA DB	Base/Manifold Plug-in Base/Manifold Plug-in w/Ground	-
MA 24 VDC (1.93	· • • • • • • • • • • • • • • • • • • •				DC	Base/Manifold Plug-in w/ Led	- 92
					DD EA	Base/Manifold Plug-in w/ Led and Ground Base/Manifold Plug-in 3 Pin	_
* Other and an arrelable	210					(Polarity Switching Cover)	_ 93
* Other options available ** 2 and 4 wire bases must	r, see page 319. It use "D" type elect use "EA" type elect	rical connector.					ISO 01
	use EA Type elec	rrical connector.					150 01
OPTIONS					nd to	,	150 02
Manifold/Base Configure 38A-xxx-xAx-LxxP-xx				Manifold/Base Int./E 38A-xxx-xx A -Lxx	,	(ire options)	150 1
T	ndividual base – Sid	e port		300 200 - 200		t. Pilot (2 Wire)**	150 2
B In J M K M L L M Le N Ri	ndividual base – Bot Nanifold base – Side Nanifold base – Bott eft end manifold base eft end manifold basight end manifold basight	to'm port e port om port se – Side port se – Bottom port ase – Side port			B Plug-In E: C Plug-In In D Plug-In E: E Plug-In In	xt. Pilot (2 Wire)** t. Pilot (3 Wire)** xt. Pilot (3 Wire)** tt. Pilot (4 Wire)** xt. Pilot (4 Wire)**	ISO 3
	ight end manifold b lies consist of (1) l	ase – Bottom port	:fl.d		·(/ · ··	I KI	

Note: Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds (option J or K).







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal Pilot: 20 to 120 PSI

External Pilot: Vacuum to 120 PSI

Pilot pressure: 20 to 120 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)

Filtration: 40 µ

Temperature range: 0°F to 120°F (-18°C to +50°C)

Flow: 1/8" bottom port: (1.2 C_v) - 1/8" side port: (1.0 C_v) - 1/4" tube receptacle: (0.85 C_v)

Coil: Class A continuous duty, #22 AWG x 12 base leads

Voltage range: -15% to +10% of nominal voltage

1.95 to 4.0 W Power:

Response times: Energize : 6 ms

(with 4 W coil) De-energize : 6 ms

• BSPP threads Options :

DIMENSIONS Dimensions shown are metric (mm) Individual base Manifold base OO 115.8 0 131.0 o Ø 5.3 1/8" TAPPED OR 1/4" O.D. TUBE FITTING



Codification table for voltages / Manual operator / Electrical connection

VALVE CODE > $G \underbrace{XX}_{1} \underbrace{X-X}_{2} \underbrace{XX}_{4}$

OPTIONS AVAILABLE FOR

- Solenoid valves 32, 34, 38, 42, 44 & 48 Series



_	1. VOLTAGE		4. ELECTRICAL CONNECTION
G-XX X-X XX	VOLTAGE	G-XX X-X XX	ELECTRICAL CONNECTION
AA	120 VAC (2.5W) Requires electrical connector with rectifier	BA	Flying leads
AC	24 VAC (4.0W) Requires electrical connector with rectifier	ВВ	BA with ground wire
DA	24 VDC (1.0W)	ВС	BA with light
DC	24 VDC (1.8W)	BD	BA with light and ground wire
DD	24 VDC (2.5W)	BE	BA with suppression diode
DE	24 VDC (3.0W)	BF	BA with suppression diode and ground wire
DF	24 VDC (4.0W)	BG	BA with suppression diode and light
DG	12 VDC (1.0W)	ВН	BA with suppression diode, light and ground wire
DJ	12 VDC (1.8W)	BN	BA with suppression diode and blocking diode
DK	12 VDC (2.5W)	ВР	BA with suppression diode, blocking diode and ground wire
DM	12 VDC (3.0W)	BR	BA with suppresion diode, blocking diode and light
DN	12 VDC (4.0W)	BS	BA with suppression diode, blocking diode, light and ground
DR	6 VDC (1.8W)		wire
DS	6 VDC (3.0W)	GA	MAC JAC Solenoid plug-in
EB	48 VDC (1.8W)	GB	MAC JAC Solenoid plug-in w/Diode
EC	48 VDC (3.0W)	GC	MAC JAC Solenoid plug-in w/MOV
ED	120 VDC (2.5W)	GD	MAC JAC Solenoid plug-in w/LED
GD	12 VDC (0.5W) 34 series only	GE	MAC JAC Solenoid plug-in w/Diode & LED
GE	24 VDC (0.5W) 34 series only	GF	MAC JAC Solenoid plug-in w/MOV & LED
		GG	MAC JAC Solenoid plug-in w/Rectifier
	2. WIRE LENGTH	GH	MAC JAC Solenoid plug-in w/Rectifier & LED
A VV V V VV	WIDE 15116511	KA	Solenoid plug-in wire assembly
	WIRE LENGTH	КВ	KA with ground
0	No lead wires (used only with "KJ" & "KM" connectors)	KC	KA with rectifier and light
A	18" coil leads	KD	KA with rectifier, light and ground
B	24" coil leads	KE	KA with suppression diode
C	36" coil leads 48" coil leads	KF KJ	KA with suppression diode and ground
E	72" coil leads	KM	Solenoid plug-in housing without wire assembly Solenoid plug-in housing with ground pin without wire
F	96" coil leads	KWI	assembly
G	120" coil leads	KN	KA with suppression diode and blocking diode
— U	144" coil leads	KP	KA with suppression diode, blocking diode and ground
	18" base leads	KT	KA with light
2	24" base leads	KU	KA with light and ground
3	36" base leads	KV	KA with suppression diode and light
4	48" base leads	KW	KA with suppression diode, light and ground
5	72" base leads	KX	KA with suppression diode, blocking diode and light
6	96" base leads	KY	KA with suppression diode, blocking diode, light & ground
7	120" base leads		
		ELEC	TRICAL CONNECTION FOR PLUG-IN VALVES
	3. MANUAL OPERATOR	G.YY Y.Y YY	PLUG-IN OPTIONS
G-XX X-X XX	MANUAL OPERATOR	G-XX X-X XX	Base plug-in with ground
1	Non-locking recessed	SC	Base plug-in with suppression and blocking diode
2	Locking recessed	SD	Base plug-in with suppression and blocking diode and ground
3	Non-locking extended	SE	Base plug-in with MOV
4	Locking extended	SF	Base plug-in with MOV and ground
	g onunava	5G	Base plug-in with rectifier
		SH	Base plug-in with rectifier and ground
		SK	Base plug-in with light and ground
		SL	Base plug-in with suppression and blocking diode and light
		SM	Base plug-in with suppression and blocking diode with light
			and ground
		SN	Base plug-in with MOV and light
		SP	Base plug-in with MOV and light with ground
		SR	Base plug-in with rectifier and light



Codification table for voltages / Manual operators / Electrical connections

VALVE CODE ➤

 $L \frac{XX}{1} \frac{X-X}{2} \frac{XX}{3} \frac{XX}{4}$

OPTIONS AVAILABLE FOR

- Solenoid valves 32, 38, 42, 44, 47 & 48 Series



1. VOLTAGE (32, 38, 42, 44, 48 SERIES)			1. VOLTAGE (47 SERIES)		
L- XX X-X XX	VOLTAGE	L- XX X-X XX	VOLTAGE		
DF	24VDC (4.0W)	DA	24VDC (5.2W)		
DN	12VDC (4.0W)	DF	12VDC (5.2W)		
НА	24VDC (1.95W)				
HE	12VDC (1.95W)				

2. WIRE LENGTH (all series)

L- XX X-X XX	WIRE LENGTH
0	No lead wire
A	18"
В	24"
С	36"
D	48"
E	72"
F	96"
G	120"
Н	144"

3. MANUAL OPERATOR (all series)

L- XX X-X XX	MANUAL OPERATOR
0	No operator

4. ELECTRIC	AL CONNECTOR (32, 38, 42, 44 & 48 series)	4.	ELECTRICAL CONNECTOR (47 series)
L-XX X-X XX	NON PLUG-IN	L- XX X-X XX	NON PLUG-IN
BA	2 wire flying leads	ВА	2 wire flying leads
ВВ	2 wire flying leads with ground wire	ВВ	2 wire flying leads with ground wire
ВС	2 wire flying leads with light	ВС	2 wire flying leads with light
BD	2 wire flying leads with light & ground wire	BD	2 wire flying leads with light & ground wire
BJ	4 wire flying leads	BJ	4 wire flying leads
BK	4 wire flying leads with ground	BK	4 wire flying leads with ground
BL	4 wire flying leads with light	BL	4 wire flying leads with light
ВМ	4 wire flying leads with light & ground wire	ВМ	4 wire flying leads with light & ground wire
KA	2 wire plug-in assembly	LA	3 wire plug-in assembly (Plarity switching cover)
KB	2 wire plug-in assembly with ground wire	MA	2 wire plug-in assembly
KC	2 wire plug-in assembly with light	МВ	2 wire plug-in assembly with ground wire
KD	2 wire plug-in assembly with light and ground wire	МС	2 wire plug-in assembly with light
KE	4 wire plug-in assembly	MD	2 wire plug-in assembly with light and ground wire
KF	4 wire plug-in assembly with ground wire	ME	4 wire plug-in assembly
KG	4 wire plug-in assembly with light	MF	4 wire plug-in assembly with ground wire
KH	4 wire plug-in assembly and ground wire	MG	4 wire plug-in assembly with light
LA	3 wire plug-in assembly (polarity switching cover)	МН	4 wire plug-in assembly with light and ground wire
		L- XX X-X XX	PLUG-IN
L-XX X-X XX	PLUG-IN	EA	Base plug-in 3 pin (Polarity switching cover)
*DA	Base plug-in	FA	Base plug-in with ground
*DB	Base plug-in with ground pin	FB	Base plug-in with ground & light
*DC	Base plug-in with light	FC	Base plug-in 4 wire with ground
*DD	Base plug-in with light & ground pin	FD	Base plug-in 4 wire with light & ground
**EA	Base plug-in 3 pin (Plarity switching cover)		

^{*} Use these options for plug-in base with 2 or 4 wire assemblies

** Use this option for plug-in bases with 3 wire assemblies