Individual mounting Series Sub-base "plug-in" 33 34 Manifold mounting 36 32 37 38 **52** 67 69 Integral 4-way pilot 44 46 Manual operator \searrow 42 47 48P Solenoid 48 **Bonded spool** Air return 400 92 **SERIES FEATURES** 93 • High force MACSOLENOID®. ISO 01 • Integral 4-way pilot design. ISO 02 • Internal or external pilot. **ISO** 1 • Normally open or normally closed function. • Universal function (external pilot). **ISO 2**

• Rectified AC voltage.

• Latching solenoid technology.

ISO 3



Function	Port size	Flow (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.



69 44

46

42

47

48

400

92

93

ISO 01

ISO 02

ISO 1 **ISO 2**

ISO 3

48P

HOW TO ORDER

Port size	Pilot air NO valve		NC valve	Universal valve	
		10 2 12	10 2 12	10 2 12	
Valve less base	Interna	38B-BMA-000-G xxx-xxx	38B-AMA-000-G xxx-xxx		
	Externa	38B-BMB-000-G xxx-xxx	38B-AMB-000-G xxx-xxx	38B-GMB-000-G xxx-xxx	
1/8" NPTF	Interna	38B-BMA-AAL-G xxx-xxx	38B-AMA-AAL-Gxxx-xxx		
	Externa	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 ➤

G	X	<u>X</u> X- <u>X</u>	XXX [°]

				_ 7	
XX	Voltage	X	Wire length	Х	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	rectifier.			

Note: AC voltage requires connector with rectifier.

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 Configuration:

38B- x M	Λx-x/	x-Gxxx	-XXX	
		A B	Individu Individu	ual base – Side port ual base – Bottom port
		M	Pilot ex	chaust muffled
		ΰ	Pilot ex	chaust piped (# 10-32) chaust to main exhaust

XX	Electrical connection
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







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)

1/8" bottom port: (1.2 C_v) - 1/8" side port: (1.0 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

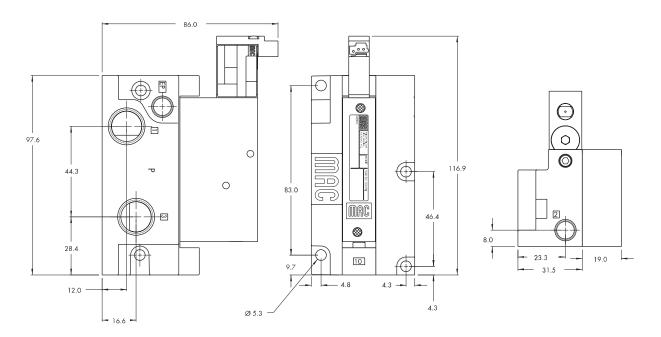
Response times : Energize : 6 ms

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

Options : • BSPP threads

DIMENSIONS

Dimensions shown are metric (mm)





Function	F	Port size	Flow (Ma	X]	Individual	mounting	Series
3/2 NO-NC		1/8" - 1/4" O.D. tube rece	1.2 C _V		Sub-base "plug-in"		
OPERATIONAL BENEFITS							33
1. 3-way valve with 4-wa	, , ,						34
 10 mm valve (stacks of the stacks of the stacks) High flow (up to 1.2 of the stacks) 		ters).					0-1
 Fast, repeatable response 	onse times.						36
Maximum shifting force	ces in both direc	tions.					
							32
					- 8	The second	37
					- 8		38
					-		52
HOW TO ORDER							67
Port size	Pilot air	NO val	ve	NC valve		Universal valve	69
		10 -2	¬ 12	10 -2 1	2	10 2 12	44
			12 4/1		Í		46
Valve less base		38B-BMA-000-	GxxP-xxx	38B-AMA-000-GX	xP-xxx		- 40
	Externa	38B-BMB-000-	GxxP-xxx	38B-AMB-000-GxX	xP- <i>xxx</i>	38B-GMB-000-GxxP-xxx	-
1/8" NPTF	Internal	38B-BMA-AAA	-GxxP-xxx	38B-AMA-AAA-Gx	xP-xxx		42
	Externa	38B-BMB-AAB-		38B-AMB-AAB-GX		38B-GMB-BAB-GxxP-xxx	47
1/4" O.D.	Internal	38B-BMA-EAA		38B-AMA-EAA-GX		-	47
Tube receptacle	External	38B-BMB-EAB-	GxxP-xxx	38B-AMB-EAB-G xx P- xxx 38B-		38B-GMB-EAB-GxxP-xxx	_ 48P
Note : Above codes are fo	·			_			
STANDARD SOLEN	OID OPERATO	OR ➤	G <u>xx</u>	P- x<u>xx</u> *			48
		_					
XX Voltage		X	Manual ope	erator	XX	Electrical connection	400
AA 120 VAC (2.5		1	Non-locking rec	essed	SA	Base plug-in	- 700
DA 24 VDC (1.0V DC 24 VDC (1.8V			Locking recessed	<u> </u>	SJ 55	Base plug-in with light Base plug-in with rectifier & light & ground	92
DD 24 VDC (2.5V	V)					saso piog in mini rocinio, at jig. a groona	-
DF 24 VDC (4.0V Note: AC voltage requires		roctifier					93
 Other options available 	e, see page 311.						73
Latching solenoid also ava	iliable, see page o	01.					ISO 01
OPTIONS							ISO 02
Pilot/Base Configuration							150 02
38B- xM x-x A x-Gxx P-							ISO 1
TT	ndividual base – S	Side port					ISO 2
	ndividual base – E						ISO 3
	ilot exhaust muffle ilot exhaust piped						
	ilot exhaust to mo						

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

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

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

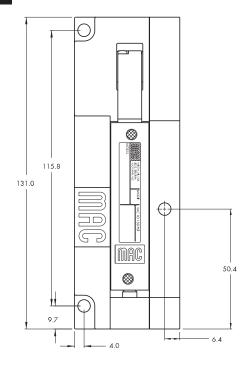
Power: 1.0 to 4.0 W

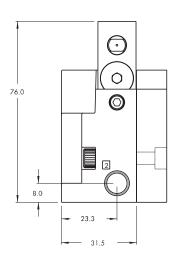
Response times : Energize : 6 ms (with 4 W coil) De-energize : 6 ms

Options: • BSPP threads

DIMENSIONS

Dimensions shown are metric (mm)







Function	Port size	Floш (Max)	Manifold mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	V		

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_v).4. Fast, repeatable response times.
- 5. Maximum shifting forces in both directions.



69 44

46

42

47 48P

48

400

92

93

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 12 371		10 2 12 10 3 11
Valve less base	Interna	38B-BMA-000-G xx P- xxx	38B-AMA-000-G xx P- xxx	
	Externa	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-G xx P- xxx	
	Externa	38B-BMB-AJB-GxxP-xxx	38B-AMB-AJB-GxxP-xxx	38B-GMB-BJB-GxxP-xxx
1/4" O.D. Internal 38B-BMA-EJA-G xx P- xxx		38B-BMA-EJA-GxxP-xxx	38B-AMA-EJA-G <i>xx</i> P- <i>xxx</i>	
Tube receptacle External 38B-BMB-EJB-GxxP-xxx		38B-AMB-EJB-GxxP-xxx	38B-GMB-EJB-GxxP-xxx	

Note: Above codes are for side port.

STANDARD SOLENOID OPERATOR >



X	X Voltage	X Manual operator	XX Electrical connection
Α	A 120 VAC (2.5W)	Non-locking recessed	SA Base plug-in
D.	4 24 VDC (1.0W)	2 Locking recessed	SJ Base plug-in with light
D	24 VDC (1.8W)		55 Base plug-in with rectifier & light & ground
D	24 VDC (2.5W)	-	
D	F 24 VDC (4.0W)	-	

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.

OPTIONS

Base only:

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

Base Configuration :

38B-**xxx**-**xJx**-G**xx** 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").







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

0°F to 120°F (-18°C to +50°C)

Temperature range: 0°F

Flow:

1/8" bottom port: (1.2 $C_{\rm v})$ - 1/8" side port: (1.0 $C_{\rm v})\,$ - 1/4" tube receptacle: (0.85 $C_{\rm v})\,$

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

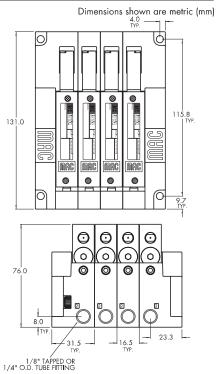
Response times: Energize: 6 ms

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

Options : • BSPP threads

DIMENSIONS

1/8" COMMON EXT. PILOT — 0 131.0 0 0 107.1 0 0 28.4 ်ဝ 12.0 0 16.5 16.7 3/8" IN & EXH Ø 5.3 TYP. - 33.5 *-***—** 47.5 L 1/8" TAPPED OR 1/4" O.D. TUBE FITTING 8.0





Function		ort size Fl	ош (Max)		Individual/Manifold mounting		
3/2 NO-NC		/8" = 1 /4" O.D. tube receptacle	.2 C _v	Sub-base/ manifold base non "plug-in" with latching solenoid	Sub-base/ manifold base non "plug-in" with latching		
PERATIONAL BENEFITS						_ 33	
. 3-way valve with 4-wa					56	34	
. 10 mm valve (stacks o . High flow (up to 1.2 C		ers).					
Fast, repeatable respo	nse times.	ons.			1	36	
						32	
						37	
						38	
						52	
HOW TO ORDER						67	
Port size	Pilot gir	NO valve		NC valve	Universal valve	69	
	1101 411					44	
		10 2 12 75 7 3 1	10 <u> 75</u>	2 12 2/1 V3 01		46	
Valve less base	Internal	38A-BMA-000-L xxx-xxx		AA-000-L xxx-xxx			
- (0.7.)	External	38A-BMB-000-Lxxx-xxx		AB-000-Lxxx-xxx	38A-GMB-000-L xxx-xxx	42	
1/8" NPTF	Internal	38A-BMA-AAL-LXXX-XXX		AA-AAL-LXXX-XXX	20 A CAAD A AAA L YYYY YYYY		
1/4" O.D.	_ External _ Internal	38A-BMB-AAM-LXXX-XXX 38A-BMA-EAL-LXXX-XXX		NB-AAM-L xxx-xxx NA-EAL-L xxx-xxx	38A-GMB-AAM-Lxxx-xxx	— 47	
Tube receptacle	External _	38A-BMB-EAM-Lxxx-xxx		NB-EAM-LXXX-XXX	38A-GMB-EAM-LXXX-XXX	48P	
ote : Above codes are for ATCHING SOLENO			<u>xx</u> x- <u>xxx</u> *			48	
XX Voltage		X Wire length		anual operator	XX Electrical connection	n** 400	
DF 24 VDC (4.0W HA 24 VDC (1.95V		A 18" B 24"	0 No	operator	BJ 2 Wire Flying leads 4 Wire Flying leads	92	
	-	C 36"			KA 2 Wire Plug-in Assembly	_ 92	
					LA 4 Wire Plug-in Assembly 3 Wire plug-in assembly		
	210				(Polarity Switching Cover)	93	
Other options available, Latching 38 series with r	, see page 319. non plug-in base (configuration must use "B", "K" or	"L" type electrical connec	ctor.		ICO (
OPTIONS						ISO (
						ISO (
ot/Base Configuration 38A- xMx-xA x-Lxxx-x						ISO 1	
T T	dividual base – S	ide nort				ISO 5	
B In	idividual base – 3 Idividual base – Bi Ianifold base – Si	ottom port				ISO 3	
	lanifold base – Si Ianifoldl base – Bo					190	
88 0	m	1					

Note : Manifold assemblies require an end plate kit :

M Pilot exhaust muffled
P Pilot exhaust piped (#10-32)
U Pilot exhaust to main exhaust

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







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal Pilot: 20 to 120 PSI

External Pilot: Vacuum to 120 PSI

20 to 120 PSI Pilot pressure:

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

Filtration: 40 μ

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

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 wires (#22 AWG x 18), continuous duty

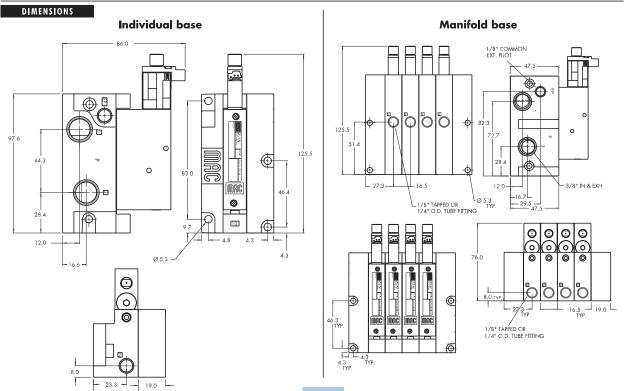
-15% to +10% of nominal voltage Voltage range:

1.95 to 4.0 W Power:

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

De-energize : 6 ms

Options: • BSPP threads





Function	Po	rt size	Flow (Max)			/Manifold mounting	Series
3/2 NO-NC	,	/8" = /4" O.D. tube receptacle	1.2 C _V	Sub-base/ manifold base "plug-in" with latching		se	
OPERATIONAL BENEFITS					solenoid	_	33
1. 3-way valve with 4-wa)				7777	34
 10 mm valve (stacks o High flow (up to 1.2 C Fast, repeatable respo Maximum shifting forc 	C _V). nse times.					1111	36
						400	32
							37
					- 4	0 - 10	38
						010	52
HOW TO ORDER							67
Port size	Pilot air	NO valve		NC valve		Universal valve	69
		_					44
					12 Z		4.7
Valve less base		38A-BMA-000-L xx P- >		38A-AMA-000-L x)	rP- xxx	<u>∀3 ∮1</u>	46
	External	38A-BMB-000-LxxP-x		38A-AMB-000-L xx		38A-GMB-000-LxxP-xxx	-
1/8" NPTF	Internal	38A-BMA-AAA-L xx P-2	xxx	38A-AMA-AAA-L x	xP-xxx		42
. /	External	38A-BMB-AAB-LxxP-x		38A-AMB-AAB-LXX		38A-GMB-AAB-LxxP-xxx	47
1/4" O.D. Tube receptacle	Internal	38A-BMA-EAA-LxxP-x 38A-BMB-EAB-LxxP-x		38A-AMA-EAA-LXX		38A-GMB-EAB-LxxP-xxx	48P
Note : Above codes are fo ATCHING SOLENC			L xx P	vvv.			48
ATCHING SOLENC	OI LKATOK			^^			70
				J			400
XX Voltage DF 24 VDC (4.0W	Λ		anual opera	itor	XX DA	Electrical connection** Base/Manifold Plug-in	400
HA 24 VDC (1.95			operator		DB	Base/Manifold Plug-in w/Ground	92
					DC DD	Base/Manifold Plug-in w/ Led Base/Manifold Plug-in w/ Led and Ground	-
					EA	Base/Manifold Plug-in 3 Pin (Polarity Switching Cover)	93
Other options available	, see page 319.					(classy consume consumers)	73
2 and 4 wire bases mus 3 wire base must	t use "D" type elect use "EA" type elec	rical connector. trical connector.					ISO 01
OPTIONS							ISO 02
anifold/Base Configure	ation :			Manifold/Base Int./Ex	t. Pilot : (W	ire options)	ISO 1
38A- xxx -x A x-L xx P- x x				38A- xxx-xxA -L xx F			ISO 2
B In J M K M L Le M Le	dividual base – Sic dividual base – Bo anifold base – Sid- anifold base – Bott ft end manifold ba ant and manifold ba	ttom port e port fom port se – Side port se – Bottom port			B Plug-In Ex C Plug-In In D Plug-In Ex E Plug-In In	. Pilot (2 Wire)** t. Pilot (2 Wire)** . Pilot (3 Wire)** t. Pilot (3 Wire)** . Pilot (4 Wire)** t. Pilot (4 Wire)**	ISO 3
P Ri	ght end manifold b ght end manifold b	pase – Side port pase – Bottom port					
		6 1 (61) (6)		1 . 1 . 1 . 1			

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

20 to 120 PSI Pilot pressure:

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

Filtration: 40 μ

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

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

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

Power: 1.95 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) Individual base Manifold base 0 Ø 5.3 TYP. 0 0 ⊗ 1/8" TAPPED OR 1/4" O.D. TUBE FITTING



Codification table for voltages / Manual operator / Electrical connection

VALVE CODE > $G \frac{XX}{1} \frac{X-X}{2} \frac{XX}{3} \frac{XX}{4}$

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
	21123(01011) 0100100 011)	GG	MAC JAC Solenoid plug-in w/Rectifier
	2. WIRE LENGTH	GH	MAC JAC Solenoid plug-in w/Rectifier & LED
		KA	Solenoid plug-in wire assembly
G-XX X-X XX	WIRE LENGTH	КВ	KA with ground
0	No lead wires (used only with "KJ" & "KM" connectors)	КС	KA with rectifier and light
	18" coil leads	KD	KA with rectifier, light and ground
B	24" coil leads	KE	KA with suppression diode
C	36" coil leads	KF	KA with suppression diode and ground
D	48" coil leads	KJ	Solenoid plug-in housing without wire assembly
E	72" coil leads	KM	Solenoid plug-in housing with ground pin without wire
F	96" coil leads	1011	assembly
G G	120" coil leads	KN	KA with suppression diode and blocking diode
H	144" coil leads	KP	KA with suppression diode, blocking diode and ground
1	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 and fight 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 did light & ground
7	120" base leads		NA will suppression alode, blocking alode, light & ground
	120 base leads	ELEC	TRICAL CONNECTION FOR PLUG-IN VALVES
	3. MANUAL OPERATOR	EREC	IRICAL CONNECTION FOR PLOG-IN VALVES
	O. MANUAL OF ERATOR	G-XX X-X XX	PLUG-IN OPTIONS
G-XX X-X XX	MANUAL OPERATOR	SB	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 groun
3	Non-locking extended	SE	Base plug-in with MOV
		SF	Base plug-in with MOV and ground
	Locking extended		
4	Locking extended		<u> </u>
	Locking extended	SG	Base plug-in with rectifier
	Locking extended	SG SH	Base plug-in with rectifier Base plug-in with rectifier and ground
	Locking extended	SG SH SK	Base plug-in with rectifier Base plug-in with rectifier and ground Base plug-in with light and ground
	Locking extended	SG SH SK SL	Base plug-in with rectifier Base plug-in with rectifier and ground Base plug-in with light and ground Base plug-in with suppression and blocking diode and light
	Locking extended	SG SH SK	Base plug-in with rectifier Base plug-in with rectifier and ground Base plug-in with light and ground Base plug-in with suppression and blocking diode and light Base plug-in with suppression and blocking diode with light
	Locking extended	SG SH SK SL SM	Base plug-in with rectifier Base plug-in with rectifier and ground Base plug-in with light and ground Base plug-in with suppression and blocking diode and light Base plug-in with suppression and blocking diode with light and ground
	Locking extended	SG SH SK SL SM	Base plug-in with rectifier Base plug-in with rectifier and ground Base plug-in with light and ground Base plug-in with suppression and blocking diode and light Base plug-in with suppression and blocking diode with light and ground Base plug-in with MOV and light
	Locking extended	SG SH SK SL SM	Base plug-in with rectifier Base plug-in with rectifier and ground Base plug-in with light and ground Base plug-in with suppression and blocking diode and light Base plug-in with suppression and blocking diode with light and ground



Codification table for voltages / Manual operators / Electrical connections

VALVE CODE ➤

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

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)			

	(all series)	

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

3. MANUAL OPERATOR (all series)

MANUAL OPERATOR L- XX X-X XX

No operator

4. ELECTRICAL 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
BB	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	ВК	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	MB	2 wire plug-in assembly with ground wire
KD	2 wire plug-in assembly with light and ground wire	MC	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
**FA	Base plug-in 3 pin (Plarity switching cover)	_	

^{**}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