

SERIES FEATURES

- Short stroke solenoid produces high energization shifting force.
- High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- Built-in wear compensation valve stroke is shorter than solenoid stroke.
- Four (4) bonded balanced poppets on a one-piece valve stem.
- End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.
- Exhaust seals are not under inlet pressure thus reducing friction.
- Short stroking balanced poppet allows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.

93

ISO 01

ISO 02

ISO 1

ISO 2

ISO 3



Function	Por	t size	Floш (Max)		Individual Mou	ınting		Series
5/2	1/	8" - 1/4"	0.5 C _V		Inline			
OPERATION	AL BENEFITS							33
	ke solenoid produces high ion shifting force.	7. Integral no inline mod	on-rising flow controls els.	available on				34
2. High force solenoid in de-energi.	e return spring due to high forc maximizes both energization a zation shifting forces. ear compensation – valve strok	nd direct sole forces, mir	ing balanced poppe noid operation with l nimized friction, fast in a small package.	nigh shifting				36
shorter the 4. Four bond	an solenoid stroke. ded balanced poppets on a one	_	т а ѕтан раскаде.			1	.0	32
	pets seal first on conical seats a				- 5			37
	nlet poppet, eliminating cutting. eals are not under inlet pressure				30			38
reducing	friction.					0		52
HOW TO	ORDER							67
	Port size		Without flow co	ntrols		With f	low controls	69
			12 w T] 14		12 W	14	44 46
	1/8" NPTF		3 1 5 47A-AA0-H xx	(-XXX		47A-B	5 40-H xxx-xxx	40
	1/4" NPTF		47A-AB0-H xxx	-xxx		47A-BI	80-H ххх-ххх	40
SOLENOI	D OPERATOR ➤		Н ххх-х	XX*				42
								47 48P
XX	Voltage	X Lead Wire	length	X Manual ope	erator	XX	Electrical connection	401
	24 VDC (5.2W) 24 VDC (2.4W)	A 18" B 24"		 Non-locking rec Locking recessed 		MA MC	Plug-in wire assembly Plug-in wire assembly with	48
DC	24 VDC (1.8W) 24 VDC (1.0W)	c 36"		20011119 10000000		BA	light Flying leads	70
	120 VAC (6.7W)				-	BC MT	Flying leads with light Plug-in wire assembly with	400
					-		rectifier & light	700
	ions available, see page 315. tage requires connector with recti	fier.						92
LATCHING	G OPERATOR ➤		L <u>xx</u> x- <u>x</u>	XX*				93
					_			ISO 01
	Voltage 24 VDC (5.2W)	X Lead Wire	_	Manual opeNo operator	erator	XX BA	Electrical connection 2 Wire Flying leads	ISO 01
DF	12 VDC (5.2W)	B 24" C 36"		'		BJ LA	4 Wire Flying leads 3 Wire Plug-in	ISO 12
	_				-	MA	(Polarity switching cover) 2 Wire Plug-in	ISO 2
* Other opti	ions available, see page 319.				-	ME	4 Wire Plug-in	
o. opii	and the second s							ISO 3

OPTIONS

Namur Mount Option (w/o flow controls)









Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 120 PSI

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: $5.2W: (0.50 C_v) - 2.4W: (0.35 C_v) - 1.0W: (0.30 C_v)$

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

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

Power: 5.2W - 2.4W - 1.0W

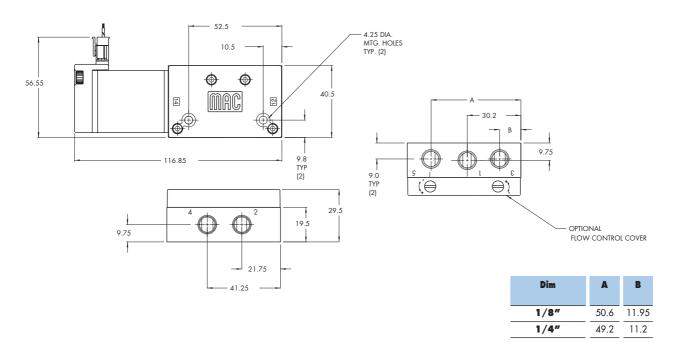
Response times : Energize : 17.4 ms

(with 5.2 W coil) De-energize: 3.8 ms

Options : • BSPP threads

Spare parts : • Flow control assembly : N-47004

DIMENSIONS





Function		Port size		Flow (Max)		Individual Mounting	Series
5/2		1/8" -	1/4"	0.5 C _V		Sub-base non "plug-in"	
OPERATIO	NAL BENEFITS						33
energiz	roke solenoid produces tation shifting force.	-	Integral non-rising inline models.	_			34
solenoie de-ener	orce return spring due to led d maximizes both energing gization shifting forces. wear compensation – va	zation and	 Short stroking be direct solenoid o forces, minimized high flow in a sm 	peration with h d friction, fast r	igh shifting		36
shorter 4. Four bo	than solenoid stroke. onded balanced poppets		nigh now in a sii	idii package.		- 1	32
	alve stem. ppets seal first on conica	l seats and				Q	37
cushion	inlet poppet, eliminating	g cutting.					38
	t seals are not under inlet g friction.	i pressure mus				9	52
HOW	TO ORDER						67
	Port size		wi	thout flow co	ntrals	With flow c	
	POII 3126		W11	inour now to	IIIrois	Willi How C	44
			1:	2 4	_ 14	12 w	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
				M _T \ / _T	1		46
	Valve less base	е		17A-L10-H XXX -		47A-L10-H x	
	1/8" NPTF			7A-LAA-H xxx		47A-LAB-H x	
	1/4" NPTF			I7A-LBA-H xxx -	XXX	47A-LBB-H x	XX-XXX
SOLENC	OID OPERATOR >		Н	XXX-X	XX.		47
				─ ───────────────			48P
XX	Voltage	X	Lead Wire leng	ıth 1	(Manual op	erator XX Ele	ctrical connection
DA	24 VDC (5.2W)	A	18"		Non-locking re		-in wire assembly
DB	24 VDC (2.4W)	В	24"		2 Locking recesse		-in wire assembly with
DC DD	24 VDC (1.8W) 24 VDC (1.0W)	С	36"				ng leads 400
AA	120 VAC (6.7W)						ng leads with light -in wire assembly with
							ifier & light
Other o	ptions available, see page	315.					
Note: AC v	voltage requires connector	with rectifier.					0.0
.ATCHIN	NG OPERATOR ➤		L	XXX-X	XX [*]		93
				┸┰┰			ISO 01
XX	Voltage	X	Lead Wire leng	jth)	(Manual op	erator XX Ele	ctrical connection
DA	24 VDC (5.2W)	A	18"		No operator		" Fl. : l l-
DF	12 VDC (5.2W)	В	24"		. 10 000.0101	BJ 4 W	ire Flying leads
		C	36"			LA 3 W (Pole	ire Plug-in ISO 2
						MA 2 W	ire Plug-in
						ME 4 W	ire Plug-in

^{*} Other options available, see page 319.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 120 PSI

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: 5.2W: (0.50 C_v) - 2.4W: (0.35 C_v) - 1.0W: (0.30 C_v)

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

Class / Civil Civil Civil X 10/, Commission

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

Power: 5.2W - 2.4W - 1.0W

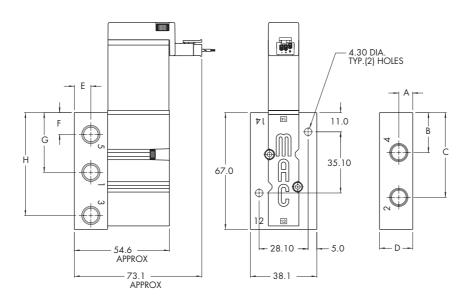
Response times: Energize: 17.4 ms (with 5.2 W coil) De-energize: 3.8 ms

Options : • BSPP threads

Spare parts : • Pressure seal body to base: 16628 • Mounting screw (x2): 35043

• Flow control assembly (x2): N-04001

DIMENSIONS



DIM.	A	В	С	D	E	F	G	н
1/8"	8.0	22.9	48.6	19.05	9.5	12.5	34.2	59.0
1/4"	9.5	24.0	48.8	23.0	12.5	12.8	34.2	57.2



unction	Port size	Flow (Max)		Manifold Mounting	Series
/2	1/8" -	1/4" 0.5 C _v		Stacking	
PERATIONAL BENEFITS					33
Short stroke solenoid penergization shifting fo		Integral non-rising flow con inline models.	trols available on	_	34
High force return spring solenoid maximizes bo de-energization shifting	g due to high force th energization and proces.	 Short stroking balanced po direct solenoid operation w forces, minimized friction, 	rith high shifting fast response and	H	36
Built-in wear compensa shorter than solenoid st Four bonded balanced	roke.	high flow in a small packa	ge.	25	32
piece valve stem. End poppets seal first c				0 1	37
cushion inlet poppet, el Exhaust seals are not u	liminating cutting. nder inlet pressure thus				38
educing friction.	nder mier pressure mes				52
HOW TO ORDER					67
Por	t size	Without flow	w controls	With flow cont	rols 69
					44
		12 w 12 w	14	12 w	 14
1/0/	/ NOTE	17\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	T	17\ \tau\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	46
	' NPTF ' NPTF	47A-SA0-H 47A-SB0-H		47A-TA0-H xxx -	
DLENOID OPERATO		H <u>xx</u> x	<u> </u>		42 47 48P
XX Voltage	X	Lead Wire length	X Manual op Non-locking red		ical connection
DA 24 VDC (5.2W DB 24 VDC (2.4W) <u>B</u>	18" 24"	Non-locking recLocking recesser	d MC Plug-in v	wire assembly wire assembly with 48
DC 24 VDC (1.8W DD 24 VDC (1.0W		36"		light BA Flying le	
AA 120 VAC (6.7V				MT Plug-in v	eads with light with 400
Other options available,				rectifier	& light 92
te: AC voltage requires o		L	*****		7-
TCHING OPERATO	JK ≯	L <u>xx</u> x	- ************************************		93
			ጎ		160.0
XX Voltage DA 24 VDC (5.2W) X	Lead Wire length	X Manual op0 No operator		ical connection ISO 0
DF 12 VDC (5.2W			v 140 operator		Flying leads ISO 0
12 100 (0.211		24"			
12 100 (0.21)) <u>B</u> <u>C</u>	36"		LA 3 Wire (Polarity	Plug-in switching cover)
12 150 (0.21)				LA 3 Wire	Plug-in Switching cover)







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 120 PSI

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

Filtration: 40 μ

 0° F to 120° F (- 18° C to $+50^{\circ}$ C) Temperature range:

Flow: $5.2W: (0.50 C_v) - 2.4W: (0.35 C_v) - 1.0W: (0.30 C_v)$

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

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

5.2W - 2.4W - 1.0W Power:

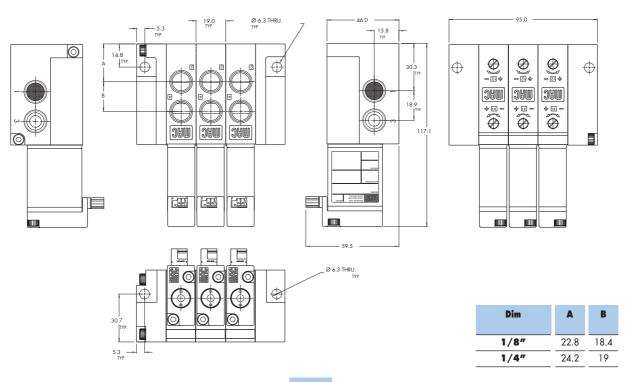
Response times: Energize: 17.4 ms

(with 5.2 W coil) De-energize: 3.8 ms

• BSPP threads Options:

• Inlet isolator: 28451 • Exhaust isolator: N-47009 • Tie Rod (x2): 79057 Spare parts:

DIMENSIONS





unction	Port size	Floш (Max)	Manifold Mounting	Series
5/2	1/8" - 1/4"	0.5 C _v	Manifold base "plug-in"	
PERATIONAL BENEFITS				33
Short stroke solenoid p		l non-rising flow controls available of	n	34
energization shifting for High force return spring solenoid maximizes bot de-energization shifting	g due to high force 8. Short state the energization and a forces. 6 forces,	troking balanced poppet allows for colenoid operation with high shifting minimized friction, fast response and		36
Built-in wear compensat shorter than solenoid str Four bonded balanced	roke.	ow in a small package.		32
piece valve stem. End poppets seal first o	on conical seats and			37
cushion inlet poppet, el	liminating cutting.		•	38
Exhaust seals are not ur reducing friction.	nder inlet pressure thus		Photo: Middle station	
HOW TO ORDER			manifold base	67
	Port size		Model number	69
	PORT SIZE		model number	44
			12 14 14	
			"\\\ \ \\ \ \\ \ \\ \ \\ \ \\ \ \\ \ \\	46
	Valve less base 1/8" NPTF		47A-L10-H xxP-xxx 47A-LAJ-H xxP-xxx	-
	I/O NEIF		4/ A-D-0-11 AAI -AAA	
	1/4" NPTF		47A-LBJ-H xxP-xxx	42
	1/4" NPTF		47A-LBJ-H xxP-xxx	-
OLENOID OPERATO		H xx P- xxx	47A-LBJ-H xxP-xxx	47
OLENOID OPERATO		H <u>xx</u> P- <u>xxx*</u>	47A-LBJ-H xxP-xxx	-
	OR >			47 48P
OLENOID OPERATO XX Voltage DA 24 VDC (5.2W)	OR >	Manual operator	XX Electrical connection	47
XX Voltage DA 24 VDC (5.2W) DB 24 VDC (2.4W)	DR >		XX Electrical connection FA Base plug-in FB Base plug-in w/ ground	47 48P
XX Voltage DA 24 VDC (5.2W) DB 24 VDC (2.4W) DC 24 VDC (1.8W)	DR > X 1 1 2	Manual operator Non-locking recessed	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground FC Base plug-in w/ LED light	47 48P 48
XX Voltage DA 24 VDC (5.2W) DB 24 VDC (2.4W)	DR >	Manual operator Non-locking recessed	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground	47 48P
XX Voltage DA 24 VDC (5.2W) DB 24 VDC (2.4W) DC 24 VDC (1.8W) DD 24 VDC (1.0W) AA 120 VAC (6.7W Other options available.	DR >	Manual operator Non-locking recessed	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground	47 48P 48 400
XX Voltage	DR > X 1 1 2 W) see page 315. connector with rectifier.	Manual operator Non-locking recessed	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground	47 48P 48
XX Voltage	DR > X 1 1 2 W) see page 315. connector with rectifier.	Manual operator Non-locking recessed Locking recessed	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground	47 48P 48 400
XX Voltage DA 24 VDC (5.2W) DB 24 VDC (2.4W) DC 24 VDC (1.8W) DD 24 VDC (1.0W) AA 120 VAC (6.7W Other options available, ote: AC voltage requires of the control of t	DR > X 1 1 2 W) see page 315. connector with rectifier.	Manual operator Non-locking recessed Locking recessed	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground	47 48P 48 400 92 93
DA 24 VDC (5.2W) DB 24 VDC (2.4W) DC 24 VDC (1.8W) DD 24 VDC (1.0W) AA 120 VAC (6.7W Other options available, ote: AC voltage requires a	DR > X 1 1 1 2 W) see page 315. connector with rectifier.	Manual operator Non-locking recessed Locking recessed	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground FT Base plug-in w/ rectifier and light	47 48P 48 400 92 93
XX Voltage DA 24 VDC (5.2W) DB 24 VDC (1.8W) DC 24 VDC (1.8W) DD 24 VDC (1.0W) AA 120 VAC (6.7W Other options available, ste: AC voltage requires of the control of t	DR > X 1 1 2 1 w) see page 315. connector with rectifier. ID > X X	Manual operator Non-locking recessed Locking recessed L XX P-XXX* Manual operator	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground FT Base plug-in w/ rectifier and light XX Electrical connection FA Base plug-in w/ ground FB Base plug-in w/ ground & LED	47 48P 48 400 92 93 ISO 0
DA 24 VDC (5.2W) DB 24 VDC (2.4W) DC 24 VDC (1.8W) DD 24 VDC (1.0W) AA 120 VAC (6.7W Other options available, one: AC voltage requires of the control of the	DR > X 1 1 2 1 w) see page 315. connector with rectifier. ID > X X	Manual operator Non-locking recessed Locking recessed L XX P-XXX* Manual operator	XX Electrical connection FA Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground FT Base plug-in w/ rectifier and light XX Electrical connection FA Base plug-in w/ ground FB Base plug-in w/ ground & LED FC Base plug-in w/ ground & LED	47 48P 48 400 92 93 ISO 0 ISO 0
DA 24 VDC (5.2W) DB 24 VDC (2.4W) DC 24 VDC (1.8W) DD 24 VDC (1.0W) AA 120 VAC (6.7W Other options available, one: AC voltage requires of the control of the	DR > X 1 1 2 1 w) see page 315. connector with rectifier. ID > X X	Manual operator Non-locking recessed Locking recessed L XX P-XXX* Manual operator	XX Electrical connection FA Base plug-in FB Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground FT Base plug-in w/ rectifier and light XX Electrical connection FA Base plug-in w/ ground FB Base plug-in w/ ground & LED	47 48P 48 400 92 93 ISO 0 ISO 0
DA 24 VDC (5.2W) DB 24 VDC (1.8W) DC 24 VDC (1.0W) AA 120 VAC (6.7W Other options available, pote: AC voltage requires of ATCHING SOLENOI XX Voltage DA 24 VDC (5.2W)	DR > X 1 1 2 W) see page 315. connector with rectifier. ID > X 0	Manual operator Non-locking recessed Locking recessed L XX P-XXX* Manual operator	XX Electrical connection FA Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground FT Base plug-in w/ rectifier and light XX Electrical connection FA Base plug-in w/ ground FB Base plug-in w/ ground & LED FC Base plug-in w/ ground & LED	47 48P 48 400 92 93 ISO 0 ISO 0
DA 24 VDC (5.2W) DB 24 VDC (1.8W) DC 24 VDC (1.8W) DD 24 VDC (1.0W) AA 120 VAC (6.7W Other options available, obe: AC voltage requires of a CHING SOLENOI XX Voltage DA 24 VDC (5.2W) DF 12 VDC (5.2W)	DR > X 1 1 2 W) see page 315. connector with rectifier. ID > X 0	Manual operator Non-locking recessed Locking recessed L XX P-XXX* Manual operator	XX Electrical connection FA Base plug-in w/ ground FC Base plug-in w/ LED light FD Base plug-in w/ LED light w/ ground FT Base plug-in w/ rectifier and light XX Electrical connection FA Base plug-in w/ ground FB Base plug-in w/ ground & LED FC Base plug-in w/ ground & LED	47 48P 48 400 92 93 ISO 0 ISO 0

J Manifold base, side cylinders (middle station)
K Manifold base, bottom cylinders (middle station)
L Right end manifold base, side cylinders
M Right end manifold base, bottom cylinders
N Left end manifold base, side cylinders
P Left end manifold base, bottom cylinders
Note: Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 120 PSI

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 (at 6 bar, $\Delta P = 1$ bar): 5.2W: $(0.50 \text{ C}_V) - 2.4\text{W}$: $(0.35 \text{ C}_V) - 1.0\text{W}$: (0.30 C_V)

Coil: Class

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

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

Power: 5.2W - 2.4W - 1.0W

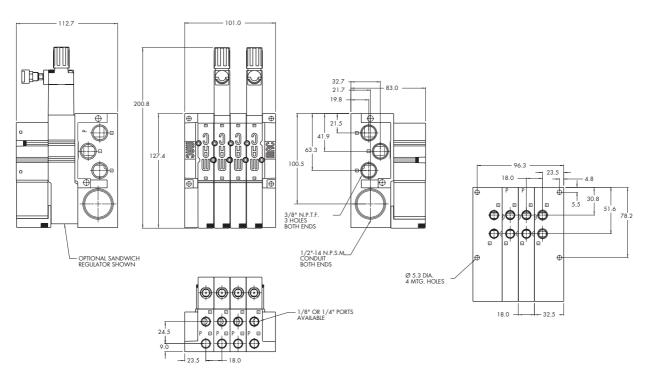
Response times : Energize : 17.4 ms

(with 5,2 W coil) De-energize: 3.8 ms

Options : • BSPP threads • Sandwich flow control: FC47A-AA • Sandwich regulator: see "Regulator" section

Spare parts : • Inlet/exhaust isolator: 28447 • Valve cover plate: M-47001

DIMENSIONS





Codification table for voltages / Manual operators / Electrical connections

VALVE CODE ➤

 $H \underbrace{XX}_{1} \underbrace{X - X}_{2} \underbrace{XX}_{4}$

OPTIONS AVAILABLE FOR

- Solenoid valves 37 & 47 Series



1. VOLTAGE	H-XX X-X XX	
	BL	BA with full wave rectifier & ground wire
		BA with full wave rectifier plus light
120/50, 120/60 (6.7 W) (use connector with rectifier)	ВО	BA with full wave rectifier plus light & ground wire
220/50, 220/60 (5.6 W)	H-XX X-X XX	PLUG-IN CONNECTOR
· · · · · · · · · · · · · · · · · · ·		Base plug-in
		FA with ground wire
<u> </u>		FA with light
		FA with light & ground wire
•		FA with suppression diode
· · ·		FA with suppression diode & ground wire
· · · · · · · · · · · · · · · · · · ·		FA with suppression diode & light
, ,		FA with suppression diode plus light & ground wire
· · · · · · · · · · · · · · · · · · ·		FA with full wave rectifier
, ,		FA with full wave rectifier & ground wire
		FA with suppression diode plus blocking diode
· · · · · · · · · · · · · · · · · · ·		FA with suppression diode plus blocking diode & ground wire
· · · · · · · · · · · · · · · · · · ·		FA with suppression diode plus blocking diode plus light
120 VDC (6.3 W)	*FS	FA with suppression diode plus blocking diode & light & ground wire
2. WIRE LENGTH	FT	FA with full wave rectifier plus light
	FU	FA with full wave rectifier plus light & ground wire
WIRE LENGTH	MA	Solenoid plug-in wire assembly
No lead wire (use with "MJ, MM & K Type connectors)	МВ	MA with ground wire
		MA with light
24"		MA with light & ground wire
36"		MA with suppression diode
		MA with suppression diode & ground wire
72"		MA with suppression diode plus light
<u> </u>		MA with suppression diode plus light & ground wire
		MA with full wave rectifier
		MA with full wave rectifier & ground wire
		MA with suppression diode plus blocking diode
3. MANUAL OPERATOR		MA with suppression diode plus blocking diode & ground wire
		MA with suppression diode plus blocking diode & light
MANUAL OPERATOR	*MS	MA with suppression diode plus blocking diode & light & ground wire
·		
		MA with full wave rectifier plus light
		MA with full wave rectifier plus light & ground wire
	MJ	Plug-in housing without wire assembly ('MA' option
Locking extended		without wire assembly)
	MM	Plug-in housing without wire assembly ('MB' option
4. ELECTRICAL CONNECTION		without wire assembly)
	KA	Mini square connector
		KA with suppression diode
, ,		KA with M.O.V.
		KA with light
		KA with light & suppression diode
<u> </u>	KF	KA with light & M.O.V.
	KJ	Mini square connector – male only
BA with suppression diode & ground wire	KK	KJ with suppression diode
BA with suppression diode plus light	KL	KJ with M.O.V.
	KM	KA with full wave rectifier
BA with suppression diode plus light & ground wire		
BA with suppression diode plus blocking diode	KN	KA with full wave rectifier & M.O.V.
BA with suppression diode plus blocking diode BA with suppression diode plus blocking diode & ground wire		KA with full wave rectifier & light
BA with suppression diode plus blocking diode	KN	
BA with suppression diode plus blocking diode BA with suppression diode plus blocking diode & ground wire	KN KP	KA with full wave rectifier & light KA with full wave rectifier plus light & M.O.V. KJ with full wave rectifier
	220/50, 220/60 (5.6 W) (use connector with rectifier) 240/50, 240/60 (5.8 W) (use connector with rectifier) 24/50, 24/60 (7.8 W) (use connector with rectifier) 24 VDC (5.2 W) 24 VDC (2.4 W) 24 VDC (1.8 W) 24 VDC (1.0 W) 12 VDC (5.2 W) 12 VDC (1.8 W) 22 VDC (1.8 W) 12 VDC (1.8 W) 24 WRE LENGTH WIRE LENGTH No lead wire (use with "MJ, MM & K Type connectors) 18" 24" 36" 48" 72" 96" 120" 144" 3. MANUAL OPERATOR No operator Non-locking recessed Locking recessed Locking recessed Non-locking extended 4. ELECTRICAL CONNECTION Flying leads BA with light BA with light BA with suppression diode	VOLTAGE 120/50, 120/60 (6.7 W) (use connector with rectifier) 220/50, 220/60 (5.6 W) (use connector with rectifier) 240/50, 240/60 (5.8 W) (use connector with rectifier) 24/50, 240/60 (7.8 W) (use connector with rectifier) 24/50, 24/60 (7.8 W) (use connector with rectifier) 24 VDC (1.2 W) FD (use connector with rectifier) 24 VDC (1.2 W) FF (1.2 W) FF (1.2 W) FF (1.3 W) FF (1.



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	BA	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	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	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