

# Individual mounting Series Inline 33 Manifold mounting Series

Manifold base

36

32

69

44

46

42

47 48P

48

400

92

93

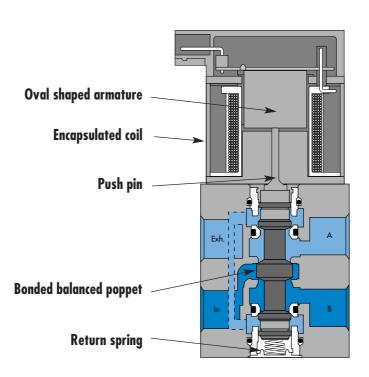
ISO 01

ISO 02

**ISO** 1

**ISO 2** 

**ISO 3** 



# **SERIES FEATURES**

- Patented high force MACSOLENOID® for fastest possible response times.
- Bonded balanced poppet for high flow, precise repeatability, and consistent operation.
- Balanced poppet permits versatility in function may be used as 3-way or 2-way normally open or normally closed and may be used for vacuum, divertor, or selector applications.
- Extremely high cycle rate capability.
- Use on lube or non-lube service.
- Manual overrides as standard.
- Various solenoid enclosures and plug-in connectors.
- Optional surge suppression available.
- Low wattage DC solenoids down to 1.3 watts.
- Rectified AC voltage.



Function	Port size	Flow (Max)	Individual mounting		Series	
4/2	1/8" - # 10-32	0.3 C <sub>V</sub>	Inline			
DPERATIONAL BENEFITS					33	
<ol> <li>Balanced poppet, immune t pressure.</li> </ol>	o variations of				34	
Patented solenoid develops forces.	high shifting			-	36	
5. Short stroke with high flow.					30	
l. Higher forces result in lower given flow.	r waftages for		6	24/1-0	32	
i. Powerful return spring.						
				do Os	37 38	
					52	
HOW TO ORDER					67	
	Single O	perator	Double	Operator	69	
Port size	Without flow controls	With flow controls	Without flow controls	With flow controls	44	
	A B B	A B B			46	
	EXH V OIN	EXH V OIN	EXH V OIN	EXH V OIN		
1/8" NPTF	46A-AA1-J <b>xxx-xxx</b>	46A-AA2-J <b>xxx-xxx</b>	46A-GA1-J <b>xxx-xxx</b>	46A-GA2-J <b>xxx-xxx</b>	42	
# 10-32	46A-AB1-J <b>xxx-xxx</b>	46A-AB2-J <b>xxx-xxx</b>	46A-GB1-J xxx-xxx	46A-GB2-J <b>xxx-xxx</b>	47	
SOLENOID OPERATOR >	•	J xxx-xxx*	(-G) Add "G" for	around	48P	
			, -,	9		
XX Voltage	X Wire leng		anual operator X	X Electrical connection	48	
Single & double solenoid  AA 120 VAC (5.4W)	** O No leads A 18"		on-locking recessed  Biking recessed  G	A Flying leads A MAC JAC solenoid plug-in		
DA 24 VDC (5.4W)	B 24" C 36"		<u> </u>	G MAC JAC solenoid plug-in with rectifier	400	
DB 12 VDC (5.4W) Single solenoid only			J	Rectangular connector		
DC 24 VDC (2.4W) DD 12 VDC (2.4W)			J	Rectangular connector with light	92	
	217		K K	<u> </u>		
Other options available, see po	i connectors			Mini square connector with light	93	
Note : - AC voltage requires con - With the MAC JAC, was	shdown capability is possible. Consult	factory for washdown modification	on number.			
Double solenoid requires	minimum 3.4 waπs.				<b>ISO</b> 01	
OPTIONS					ISO 02	
46A- <b>AA</b> 1-J <b>XXX-XXX</b>					<b>ISO</b> 1	
G Use with O ring mount (body option 'D' & 'H')						
5 53	5 · · · · · · · · · · · · · · · · · · ·	•			ISO 3	
A Single of	perator - 4 port body with side ports	4. /No. side mente - 345 - 1143 0 00	ONIIVI			
D Single of	perator - 4 port body with bottom por perator - Bottom O ring mount - All p	orts (No side ports)	ONLT			
F Single of G Double of	perator - Bottom O ring mount – Cylir operator - 4 Port body - With side por	naer ports only – Side inlet & exha ts	taust			
H Double o	pperator - Bottom O ring mount - All p	ports (No side ports)				

Examples : 46A-DG1-Jxxx-xxx (Bottom O ring mount – all ports) 46A-CB1-Jxxx-xxx (4 port body with bottom ports – no side ports)







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 100 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)

Orifice: 3,3 mm

Flow:  $1.8W: (0.20 C_v) - 2.4W: (0.20 C_v) - 5.4W: (0.30 C_v)$ 

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

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

Protection: Consult factory

**Power:** 5.4W - 2.4W - 1.8W

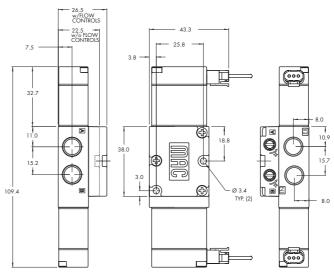
Options : • BSPP threads

DIMENSIONS

# Single solenoid 7.5 - 43.3 7

Dimensions shown are metric (mm)

### Double solenoid





Function		Port size	Flo	ш (Max)	Manifold Mou	ınting		Series
4/2		1/8" - #	10-32 0.	3 C <sub>v</sub>	Stacking			
	ed poppet, immune to variate	tions of						33 34
forces. 3. Short s	ed solenoid develops high sh troke with high flow. forces result in lower wattag							= 36
given f	low. ul return spring.	ges ioi						32
								37
					1		C )	38
HOW	TO ORDER							52 67
	Port size		With	out flow controls		Wish f	low controls	69
	1 611 3120		Willia					44
			<u>,</u>			<b>^</b>		AG
	1/8" NPTF		464	EXH ♥ ♦ IN A-SA1-J XXX-XXX		46A-S	A2-J xxx-xxx	46
	# 10-32		464	A-SB1-J <b>xxx-xxx</b>		46A-S	B2-J xxx-xxx	42
SOLENIC	OID OPERATOR ➤		1	VVV VVV* / C)	۷	far a	المساما	
JOLLIN	SID OI ERATOR >		J	<u>xx</u> x- <u>xxx</u> * (-G)	Add G	101 6	rouna	47 40D
XX	Voltage	X	Wire length	X Manual	operator	XX	Electrical connection	48P
AA	120 VAC (5.4W)	A	18"	1 Non-lockin		BA	Flying leads	40
DA DB	24 VDC (5.4W) 12 VDC (5.4W)	B C	24" 36"	2 Locking rec	essed	GA GB	MAC JAC solenoid plug-in MAC JAC solenoid plug-in with diode	48
DC DD	24 VDC (2.4W) 12 VDC (2.4W)	_				GG	MAC JAC solenoid plug-in with rectifier	400
* Other o	options available, see page 31 C voltage requires connector v	7. vith rectifier.		r washdown modification numl				92
	ith the MAC JAC, washdown kit required (port size 1/4") : I		ossible. Consult tactory to	r washdown modification numl	oer.			93
								ISO 01
								ISO 02
								<b>ISO 1</b>
								ISO 2
								<b>ISO 3</b>







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 100 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:  $1.8W: (0.20 C_v) - 2.4W: (0.20 C_v) - 5.4W: (0.30 C_v)$ 

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

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

Total of Total of Total

**Protection :** Consult factory

**Power:** 5.4W - 2.4W - 1.8W

Response times : Energize : 7.20 ms (with 5.4 W coil) De-energize : 4.20ms

Options : • BSPP threads

Spare parts: • Inlet isolator: 28494 • Exhaust isolator: 28493 • Tie rod (x2): 79411

# DIMENSIONS WITH FLOW CONTROLS WITHOUT FLOW CONTROLS Dimensions shown are metric (mm) 5.0 ٦ €ٍ" Ϋ́ Ö Ö Ö Ô 0 0 0 0 0 0 0 0 152.0 12.7 7.0 TYP

- 1/8" CYLINDER PORTS



	Port size		Floш (Max)	Manifold mounting	Series
4/2		32 O.D. Pressed-in	0.3 C <sub>v</sub>	Manifold base "plug-in"	
OPERATIONAL BENEFITS					33
1. Balanced poppet, imr	mune to variations of				34
pressure. 2. Patented solenoid dev	velops high shifting				
forces. 3. Short stroke with high	flow				36
4. Higher forces result ir					
given flow. 5. Powerful return spring	<b>]</b> .			00	32
				25 40 4	37
				200	38
					52
HOW TO ORDER	I				67
	- •				69
Po	ort size	Sing	gle solenoid	Double solenoid	44
		A	A B B B	A B B	- 44
		·	EXH V OIN		46
	less base B" NPTF		00-00-J xxP-xxx	46A-N00-00-J xxP-xxx	
	ed-in tube receptacles		SA-AC-J <b>xx</b> P- <b>xxx</b> SF-AC-J <b>xx</b> P- <b>xxx</b>	46A-NSA-BL-J xxP-xxx 46A-NSF-BL-J xxP-xxx	42
	·				
SOLENOID OPERAT	Γ∩R <b>&gt;</b>	l v	<b>y</b> P- <b>yyy</b> * <i>l-</i> G	6) Add "G" for ground	47
OOLEI VOID OI EIO (I		J 🔨	7 7 7 7	7 Add O for ground	48P
VV Waltana		V 44		VV Plantinianianiani	
XX Voltage Sinale & double sole	noid		<b>operator</b>	XX Electrical connection  FA Base plua-in	48
Single & double sole AA 120 VAC (5,-	4W)		-	FA Base plug-in  FB Base plug-in with diode	48
AA         120 VAC (5,4)           AC         24 VAC (5,4)           DA         24 VDC (5,4)	4W) W) W)	1 Non-lockin	-	FA Base plug-in	48
Single & double sole  AA 120 VAC (5,4  AC 24 VAC (5,4)  DA 24 VDC (5,4)  DB 12 VDC (5,4)  Single solenoid only	4W) W) W)	1 Non-lockin	-	FA Base plug-in  FB Base plug-in with diode	400
Single & double sole  AA 120 VAC (5,4  AC 24 VAC (5,4  DA 24 VDC (5,4  B 12 VDC (5,4  Single solenoid only  DC 24 VDC (2,4	4W) W) W) W)	1 Non-lockin	-	FA Base plug-in  FB Base plug-in with diode	
Single & double sole  AA 120 VAC (5,4  AC 24 VAC (5,4  DA 24 VDC (5,4  DB 12 VDC (5,4  Single solenoid only  DC 24 VDC (2,4  DD 12 VDC (2,4	4W) W) W) W)	1 Non-lockin	-	FA Base plug-in  FB Base plug-in with diode	400
Single & double sole  AA 120 VAC (5,4  AC 24 VAC (5,4  DA 24 VDC (5,4  DB 12 VDC (5,4  Single solenoid only  DC 24 VDC (2,4  Other options available	4W) W) W) W)	1 Non-lockin 2 Locking	g	FA Base plug-in  FB Base plug-in with diode	400
Single & double sole	4W) W) W) W) W) W) w) e, see page 317.	1 Non-lockin 2 Locking	g	FA Base plug-in  FB Base plug-in with diode	400
Single & double sole  AA 120 VAC (5,4  AC 24 VAC (5,4)  DA 24 VDC (5,4)  DB 12 VDC (5,4)  Single solenoid only  DC 24 VDC (2,4)  DD 12 VDC (2,4)  Other options available Note: AC voltage require	4W) W) W) W) W) w) e, see page 317. ss connector with rectifier. Doub	1 Non-lockin 2 Locking	g	FA Base plug-in  FB Base plug-in with diode	400
Single & double sole  AA 120 VAC (5,4  AC 24 VAC (5,4  DA 24 VDC (5,4)  B 12 VDC (5,4)  Single solenoid only  DC 24 VDC (2,4)  DD 12 VDC (2,4)  * Other options available  Note: AC voltage require  OPTIONS  46A-LSB-AC-JxxP-xx	4W) W) W) W) W) W) w) s, see page 317. ss connector with rectifier. Doub	1 Non-locking 2 Locking	g	FA Base plug-in  FB Base plug-in with diode	400
Single & double sole  AA 120 VAC (5,4  AC 24 VAC (5,4  DA 24 VDC (5,4)  B 12 VDC (5,4)  Single solenoid only  DC 24 VDC (2,4)  DD 12 VDC (2,4)  * Other options available  Note : AC voltage require  OPTIONS  46A-LSB-AC-JxxP-xx	4W) W) W) W) W) w) e, see page 317. ss connector with rectifier. Doub	1 Non-locking 2 Locking	g	FA Base plug-in  FB Base plug-in with diode	400
Single & double sole  AA 120 VAC (5,4  AC 24 VAC (5,4  DA 24 VDC (5,4)  B 12 VDC (5,4)  Single solenoid only  DC 24 VDC (2,4)  DD 12 VDC (2,4)  * Other options available  Note : AC voltage require  OPTIONS  46A-LSB-AC-JXXP-XX  C L  O Bas	4W) W) W) W) W) w) se, see page 317. ss connector with rectifier. Double Single solenoid - Side cylinder Single & double solenoid - Bor	1 Non-locking 2 Locking  le solenoid requires minimal ports tom cylinder ports	g	FA Base plug-in  FB Base plug-in with diode	92 93 ISO 01 ISO 02 ISO 1 ISO 2
Single & double sole  AA 120 VAC (5,4  DA 24 VDC (5,4  DB 12 VDC (5,4  Single solenoid only  DC 24 VDC (2,4  DD 12 VDC (2,4  * Other options available Note: AC voltage require  OPTIONS  46A-LSB-AC-JxxP-xx  C C  C Bass L Since	4W) W) W) W) w) w) w) w, see page 317. ss connector with rectifier. Doub	1 Non-lockin 2 Locking  le solenoid requires mini  ports tom cylinder ports	g	FA Base plug-in  FB Base plug-in with diode	400

Example : base only : 46A-0SA-AC. End plate kit required (port size 1/4") : M-46003-01.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 100 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:

Orific e 3.3 mm

Flow:  $1.8W: (0.20 C_v) - 2.4W: (0.20 C_v) - 5.4W: (0.30 C_v)$ 

Coil: Epoxy encapsulated - Class A wires - 100% ED

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

Protection: IP54 (electrical connection)

5.4W - 2.4W - 1.8W

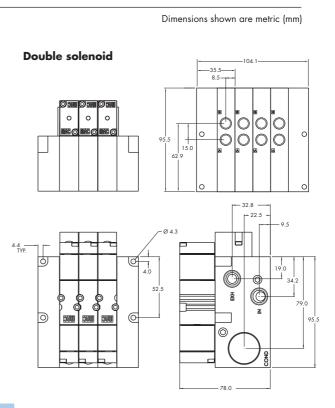
Response times: Energize: 7.20 ms De-energize : 4.20ms

• BSPP threads Options:

• Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002 Spare parts:

• Tie rod (x2): 79443

# DIMENSIONS -35.5— 8.5<del>---</del> $\bigcirc$ 0 품 0 0 0





Function	Port size		Flow (Max)	Manifold mounting	Series
4/2	1/8" - 5/32 o tube rece		0.3 C <sub>v</sub>	Manifold base "plug-in" with pressure regulators	
OPERATIONAL BENEFITS					33
<ol> <li>Balanced poppet, immurpressure.</li> </ol>	ne to variations of				34
<ul><li>2. Patented solenoid devel forces.</li><li>3. Short stroke with high fl</li></ul>	ow.			00	36
<ul><li>4. Higher forces result in la given flow.</li><li>5. Powerful return spring.</li></ul>	ower warrages for				32
					37
					38
				00	52
HOW TO ORDER					67
	Port size (Bottom ports only)			Model number	69
	(Bottom ports only)			A ( A B B	44
				EXH V IN	46
	Valve less base			46A-L00-00-J <b>xx</b> P- <b>xxx</b>	
5/32.0	1/8" NPTF .D. Pressed-in tube receptat	los		46A-LSA-AJ-J <b>xxP-xxx</b> 46A-LSF-AJ-J <b>xxP-xxx</b>	42
SOLENOID OPERATO	OR ➤	J <u>X</u>	<u>x</u> P- <u>xxx</u> * (-	G) Add "G" for grour	nd <b>47</b>
					48P
XX Voltage			operator	XX Electrical conne	
DA 120 VAC (5.4W) DA 24 VDC (5.4W) DB 12 VDC (5.4W) DC 24 VDC (2.4W)		Non-locking Locking red		FA Base plug-in FB Base plug-in with dioc FG Base plug-in with recti	
* Other options available,	217				400
Note : AC voltage requires of	onnector with rectifier.				92
46A-LSA-AJ-JxxP-xxx	egulator with adjusting knob				93
<b>G</b> R <b>O</b> Base o <b>L</b> Base r	egulator with slotted stem egulator with slotted stem with lockronly – no valve nount body nount body with gage port gulator: 46A-0SA-AJ. ize 1/4"): M-46003-01.	out			ISO 01 ISO 02 ISO 1 ISO 2







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 100 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:  $1.8W: (0.20 C_v) - 2.4W: (0.20 C_v) - 5.4W: (0.30 C_v)$ 

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

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

Protection: Consult factory

Power: 5.4W - 2.4W - 1.8W

 Response times :
 Energize :
 7.20 ms

 (with 5.4 W coil)
 De-energize :
 4.20ms

Options : • BSPP threads

Spare parts: • Inlet isolator: 28501 • Exhaust isolator: 28502 • Valve cover plate: M-46002 • Tie rod (x2): 79443

• Replacement regulators : PR46A-0AAA (slotted stem)

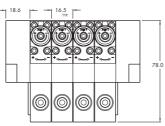
PR46A-OBAA (adjusting knob)

PR46A-OCAA (slotted stem with locknut)

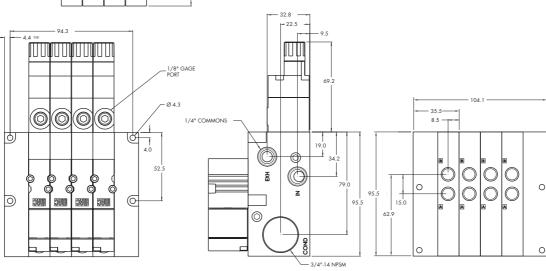
Regulating range options : • PR46A-xxx

A 0 to 120 PSI B 0 to 80 PSI C 0 to 30 PSI

DIMENSIONS



Dimensions shown are metric (mm)





Function	Port size		Flow (Max) Ма	anifold mounting	Series
4/2		32 O.D. Pressed-in e receptacles	₹ <sub>p</sub>	anifold base olug-in" with ow controls	
OPERATIONAL BENEFIT	s			_	33
1. Balanced poppet, in	nmune to variations of				34
pressure. 2. Patented solenoid de forces. 3. Short stroke with hig 4. Higher forces result	h flow.				36
given flow.  5. Powerful return sprin	-				32
	9.			Se Mo	37
				25	38
					52
HOW TO ORDER	1				67
	Port size			Model number	69
				A B D	44
				EXH V OIN	46
	Valve less base			6A-L00-00-J <b>xxP-xxx</b>	40
E/24	1/8" NPTF 2 O.D. Pressed-in tube reco	anterelo e		6A-LSA-AD-J xxP-xxx 6A-LSF-AD-J xxP-xxx	42
		-			
SOLENOID OPERA	ATOR ➤	J <u>XX</u>	P- <u>xxx</u> * (-G) Add	d "G" for ground	47
					48P
XX Voltage  AA 120 VAC (5	. 4744	X Manual a Non-locking		XX Electrical connection  FA Base plug-in	
DA 24 VDC (5.4 DB 12 VDC (5.4	4W) 4W)	2 Locking reces		FA Base plug-in FB Base plug-in with diode FG Base plug-in with rectifier	48
* Other options availab	ble, see page 317.				400
Note : AC voltage requir	res connector with rectifier.				92
	Side cylinder ports				93
<b>О</b> Ва <b>L</b> Ва <b>М</b> Ва	A Bottom cylinder ports  se only – no valve se mount body se mount body with gage port				ISO 01 ISO 02
	n flow controls: 46A-0SA-AD. ort size 1/4") : M-46003-01.				ISO 1 ISO 2 ISO 3







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 100 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: 1.8W: (0.20 C<sub>v</sub>) - 2.4W: (0.20 C<sub>v</sub>) - 5.4W: (0.30 C<sub>v</sub>)

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

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

Protection: Consult factory

Power: 5.4W - 2.4W - 1.8W

**Response times:** Energize: 7.20 ms

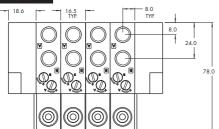
De-energize : 4.20ms

Options : • BSPP threads

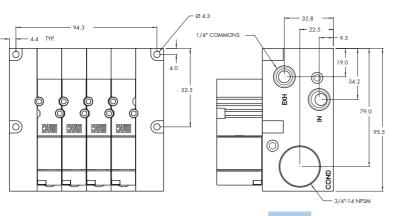
Spare parts : • Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002

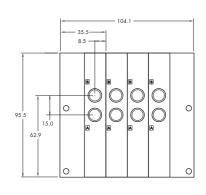
• Tie rod (x2) : 79443

# DIMENSIONS



Dimensions shown are metric (mm)







Function	Port size	ſ	Floш (Max)	Manifold mounting	Series
4/2	1/8" -	5/32 O.D. Pressed-in tube receptacles	0.3 C <sub>v</sub>	Manifold base "plug-in" with PR & FC	
OPERATIONAL BENEFITS					33
Balanced poppet, impressure.	mune to variations of			120	34
<ul><li>2. Patented solenoid der forces.</li><li>3. Short stroke with high</li></ul>	n flow.			00	36
<ul><li>4. Higher forces result in given flow.</li><li>5. Powerful return spring</li></ul>	_				32
				200	37
					38
				0	52
HOW TO ORDER					67
	Port size (Bottom ports onl	v)		Model number	69
	,	,,		A B B	44
			_	EXH V IN	46
	Valve less base			46A-L00-00-J <b>xx</b> P- <b>xxx</b> 46A-LSA-AK-J <b>xx</b> P- <b>xxx</b>	
5/32	O.D. Pressed-in tube	receptacles	_	46A-LSF-AK-J xxP-xxx	42
SOLENOID OPERAT	[∩R <b>&gt;</b>	l vv	P- <b>yyy</b> * /-(	G) Add "G" for grou	nd 47
OCENTOIS OF ENVI		J XX	T T	That o lot grow	48P
XX Voltage		X Manual o	perator	XX Electrical conn	
AA 120 VAC (5.4)  DA 24 VDC (5.4)  DB 12 VDC (5.4)  DC 24 VDC (2.4)	W) W)	1 Non-locking n 2 Locking recess	ecessed	FB Base plug-in with dio FG Base plug-in with rec	
* Other options available					400
Note : AC voltage require					92
46A-LSA-AK-JxxP-x	Regulator with adjusting k	nob_& flow controls			93
F	Regulator with slotted sten	n & flow controls n with locknut & flow controls			ISO 01
L Bas	e only – no valve e mount body e mount body with gage po	ort			ISO 02
Example : base only with End plate kit required (po	regulator : 46A-0SA-AK. rt size 1/4") : M-46003-0				ISO 1 ISO 2 ISO 3







Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 100 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:  $1.8W : (0.20 C_v) - 2.4W : (0.20 C_v) - 5.4W : (0.30 C_v)$ 

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

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

Protection: Consult factory

5.4W - 2.4W - 1.8W Power:

Response times: 7.20 ms Energize:

4.20ms De-energize :

• BSPP threads Options:

• Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002 • Tie rod (x2) : 79443 Spare parts:

• Replacement regulators : PR46A-0AAA (slotted stem)

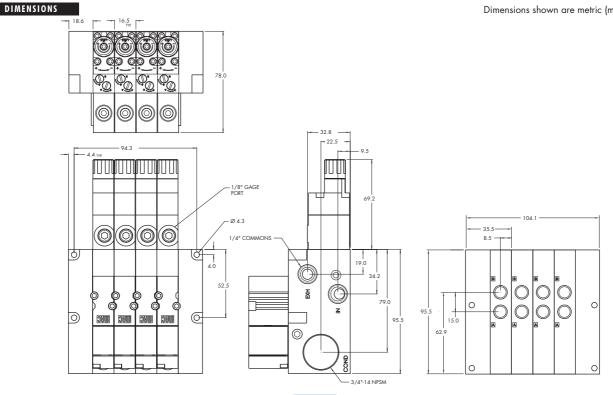
PR46A-OBAA (adjusting knob)

PR46A-OCAA (slotted stem with locknut)

Regulating range options : • PR46A-xxx

**A** 0 to 120 PSI **B** 0 to 80 PSI **C** 0 to 30 PSI

Dimensions shown are metric (mm)





# Codification table for voltages / Manual operators / Electrical connections

VALVE CODE ➤

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

## OPTIONS AVAILABLE FOR

- Solenoid valves 36, 46, ISO 01 and ISO 02 Series



	1. VOLTAGE	J-XX X-X XX	
		*JL	Square Connector with Rectifier with light
J-XX X-X XX	VOLTAGE	*JJ	Square Connector Male only (Plain)
AA	120VAC (5.4W)	*JB	Rectangular Connector
AC	24VAC (5.4W)	*JD	Rectangular Connector with light
DE	24VDC (1.8W)	*JN	Rectangular Connector with diode
DF	12VDC (1.8W)	*JP	Rectangular Connector with MOV
DJ	24VDC (1.3W)	*JR	Rectangular Connector with diode/light
DL	12VDC (1.3W)	*J5	Rectangular Connector with MOV/light
DN	12VDC (0.5W)*	*JT	Rectangular Connector with Rectifier
DR	12VDC (1.0W)*	*JU	Rectangular Connector with Rectifier with light
DS .	24VDC (0.5W)*	*JM	Rectangular Connector Male only (Plain)
DU	24VDC (1.0W)*	* Not available on mo	anifold or stacking valves
* Not available on 36	series universal valve		CONNECTORS FOR NON PLUG-IN VALVES
	2. WIRE LENGTH	J-XX X-X XX	MINI SQUARE PLUG-IN CONNECTORS 9.4 MM SPACING BETWEEN PINS
J-XX X-X XX	WIRE LENGTH	KA	Mini plug-in
A	18" coil leads	КВ	Mini plug-in with diode
В	24" coil leads	КС	Mini plug-in with MOV
<u> </u>	36" coil leads	KD	Mini plug-in with light
D	48" coil leads	KE	Mini plug-in with diode and light
E	72" coil leads	KF	Mini plug-in with MOV and light
F	96" coil leads	KG	Mini plug-in with rectifier
P	Base plug-in	KH	Mini plug-in with rectifier and light
0	No leads (use with J, K & L type connectors)	KJ	Mini plug-in – Male only
	1.10.10000 (000 1111113) 11.00 12.1/po 0011110010101	KK	Mini plug-in with diode - Male only
	3. MANUAL OPERATOR	KL	Mini plug-in with MOV - Male only
		KM	Mini plug-in with light - Male only
J-XX X-X XX	MANUAL OPERATOR	KN	Mini plug-in with diode and light – Male only
0	No operator	KP	Mini plug-in with MOV and light – Male only
1	Non-locking recessed	KR	Mini plug-in with rectifier – Male only
2	Locking recessed	KS	Mini plug-in with rectifier and light – Male only
3	Non-locking extended		AANNIPATARA TAR MAN RIIIA IN VALVEA
4	Locking extended		CONNECTORS FOR NON PLUG-IN VALVES
	25511119 571511454	J-XX X-X XX	MINI SQUARE PLUG-IN CONNECTORS
	4. ELECTRICAL CONNECTION		8.0 MM SPACING BETWEEN PINS ISO SPECIFICATION 15217
	CONNECTORS FOR NON PLUG-IN VALVES	LA LB	Mini plug-in Mini plug-in with diode
J-XX X-X XX	ELECTRICAL CONNECTION	LC	Mini plug-in with MOV
BA	Flying leads	LD	Mini plug-in with light
GA	MAC JAC solenoid plug-in	LE	Mini plug-in with diode and light
GB	MAC JAC solenoid plug-in with diode	LF	Mini plug-in with MOV and light
GC	MAC JAC solenoid plug-in with MOV	LG	Mini plug-in with rectifier
GD	MAC JAC solenoid plug-in with light		Mini plug-in with rectifier
GE	MAC JAC solenoid plug-in with diode and light	LH LJ	Mini plug-in with rectifier and light Mini plug-in – Male only
GF	MAC JAC solenoid plug-in with MOV and light	LJ LK	Mini plug-in – Male only Mini plug-in with diode - Male only
GG	MAC JAC solenoid plug-in with rectifier	LK	Mini plug-in with MOV - Male only
GH	MAC JAC solenoid plug-in with rectifier and light	LM	
GJ	MAC JAC solenoid plug-in – Male only	LM	Mini plug-in with light - Male only Mini plug-in with diode and light - Male only
GK	MAC JAC solenoid plug-in with diode – Male only	LN LP	Mini plug-in with MOV and light – Male only
GL	MAC JAC solenoid plug-in with MOV – Male only		
GM	MAC JAC solenoid plug-in with light – Male only	LR	Mini plug-in with rectifier - Male only
GN	MAC JAC solenoid plug-in with diode and light – Male only	LS	Mini plug-in with rectifier and light – Male only
GP	MAC JAC solenoid plug-in with MOV and light – Male only	J-XX X-X XX	CONNECTORS FOR PLUG-IN VALVES
GR	MAC JAC solenoid plug-in with rectifier – Male only	FA	Base plug-in
GS	MAC JAC solenoid plug-in with rectifier and light – Male only	FB	Base plug-in with diode
*JA	Square Connector	FC	Base plug-in with MOV
*JC	Square Connector with light	FD	Base plug-in with light
*JE	Square Connector with diode	FE	Base plug-in with diode and light
*JF	Square Connector with MOV	FF	Base plug-in with MOV and light
*JG	Square Connector with diode/light	FG	Base plug-in with rectifier
*JH	Square Connector with MOV/light	FH	Base plug-in with rectifier and light
*JK	Square Connector with Rectifier		1 . 2
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