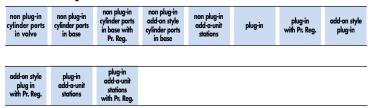
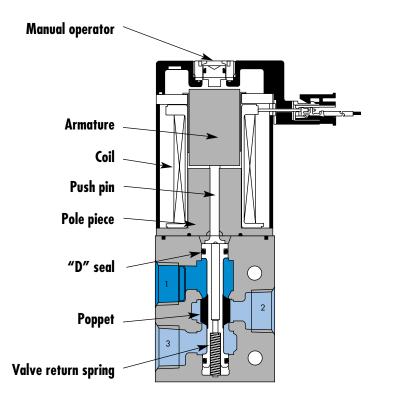


Circuit bar mounting





SERIES FEATURES

- Balanced poppet equals consistent high shifting forces.
- Valve shifting forces are consistent and independent of pressure fluctuations.
- High solenoid and return spring forces ensure high speed and precise repeatability.
- Built-in wear compensation valve stroke is shorter than solenoid stroke.
- Constant high flow maintained throughout the pressure range.
- Exhaust contaminants are isolated from the solenoid.
- Full flow exhaust.
- Universal porting 6 functions in one valve.



unction	Port size (I	nlet & Exhaust]	Floш (Max)	Circuit	bar mounting	Profile
/2 NO-NC	1/4″ - :	3/8″	0.5C _v	non pl cylinder in vo	ug-in ports Ive	26 mm 38 mm
OPERATIONAL BENEFITS						N
. Direct solenoid operated . Balanced poppet, immun						662
pressure.						
. Short stroke with high flo . The patented solenoid de						
forces. Powerful return spring.						
. Manual operator standar	d on all valves.					
					Contraction of the second	
		Reset				0
	074					0
HOW TO ORDER	37A-X	xx-Hxxx-xxx				
IOW TO ORDER VAL	E FOR CIRCUIT BA	r Mounting				
Valve po	ort size	Unive	rsal valve		NC a	nly valve
		Г	2		1	2
					Ц	
	" NPTF		O-Hxxx-xxx			GO-HXXX-XXX
1/4	" NPTF	<u>3/A-EH</u>	O-H xxx-xxx	·	O 3/A-H	IO-Hxxx-xxx
				*		
Solenoid Operator		н 🔭	X-X X			
XX Voltage	x	Wire length		lanual operator	ХХ	Electrical connection
DC 24VDC (1.8 W		18″	1 I O	Non-locking	<u> О ма</u> О мс	Plug-in wire assy
DB 24VDC (2.4 W		36″			Омс	Plug-in wire assy with light
DA 24VDC (5.2 W) <u> </u>	Other Options	_		O BA	Flying leads
AA 120VAC (must	use with				Овс	Flying leads with light
rectified connec	•				О на	Plug-in connector with
XX Other Option	IS					rectifier and light Other Options
					<u> </u>	
HOW TO ORDER CIRCUI	t bar (regulators	ORDERED SEPARATELY)**		EB	VI37A-x	xxxx-xx
Port		Without reg	ulators (20mm	n)	With regu	lators (20mm)
COMMON INLE						
26mm Profile 38mm Profile	1/4" NPTF 3/8" NPTF	EBM37/	4-01CAK- XX			- 'A-01JAK- xx
	•/• NFIF					
Number of stations (03=3 stat						
Jote · Clic for valves mou	nted on base at the tactor	r, add - 9 to the model number				
PR37A-GOAx						







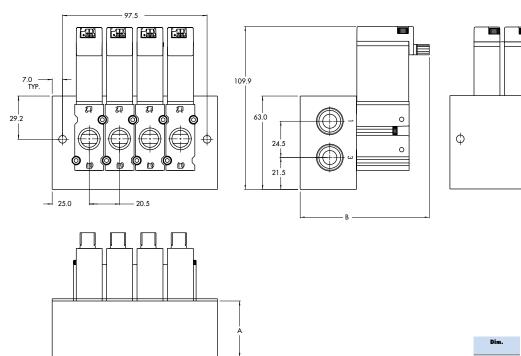
TECHNICAL DA TA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
ubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to 50°C)
Orifice :	4.3 mm
Flow (at 6 bar, \Delta P=1 bar) :	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms

Spare parts :

Options :

- Seal between valve and bar : 16630.
 Mounting screw (x2) : 35043.
 Blanking plate : R-47003.
 Isolation of inlet and/or exhaust. Special bar. Consult factory.
 BSPP Threads.

DIMENSIONS



38.0
87.1

 \oplus



Function	Port size		Flow (Max)	Circuit bar mounting	Profile
3/2 NO-NC	1/8″ - 1/ 6 mm tube	4″ • receptacle	0.5C _v	non plug-in cylinder ports in base	26 mm
 DPERATIONAL BENEFITS Direct solenoid operated v Balanced poppet, immune pressure. Short stroke with high flow The patented solenoid dev forces. Powerful return spring. Manual operator standard 	e to variations of v. velops high shifting d on all valves.	eset			
HOW TO ORDER		x-Hxxx-xxx			
Port si (see ba		Univers	al valve	NC	only valve
		₽.			
Valve less	s base	37A-C10	Нххх-ххх	<u> </u>	10-Hxxx-xxx
SOLENOID OPERATOR	>	H <u>xx</u> 2	x- <u>x</u> xx ` ⊤		
XX Voltage	x	Vire length	X Manual ope	erator XX	Electrical connection
Dc 24VDC (1.8 W) DB 24VDC (2.4 W)		18″ 36″	O 1 Non-locking	<u>О</u> ма О мс	Plug-in wire assy Plug-in wire assy with light
DA 24VDC (5.2 W) AA 120VAC (must u rectified connect XX Other Option	se with or)	Other Options		O BA O BC O HA	Flying leads Flying leads with light Plug-in connector with rectifier and light
HOW TO ORDER CIRCUIT	BAR	EBM37A	-00xxx-xx		Other Options
Port s	ize	Side cylinder	ports (18 mm)	Bottom cylin	der ports (18 mm)

1/8" NPTF **EBM37A-00AAA-XX EBM37A-00BAA-XX** EBM37A-00AAB-XX EBM37A-00BAB-XX 1/4" NPTF 6 mm tube receptacle EBM37A-00AAG-XX EBM37A-00BAG-XX

Number of stations (03=3 stations) ______Note : _____ clic for valves mounted on base at the factory, add - 9 to the model number.



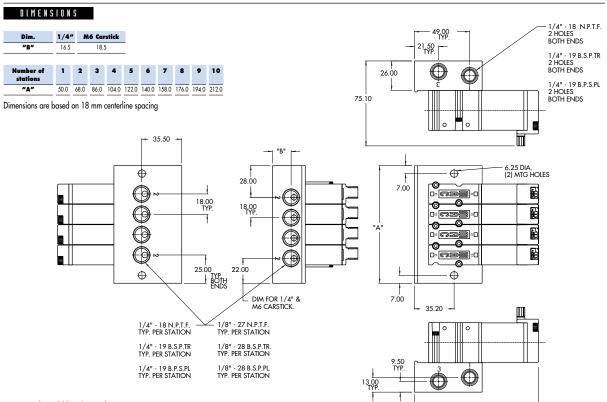


uid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to 50°C)
Orifice :	4.3 mm
Flow (at 6 bar, △P=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms

Spare parts :

• Seal between valve and bar : 16630. • Mounting screw (x2) : 35043. • Blanking plate : M-37001.

- Options :
- Isolation of inlet and/or exhaust. Special bar. Consult factory. BSPP Threads.



* M6 Carstick available only on side port

109.90



unction	Port size		Floш (Max)	Circuit bar mounting	Profile
3/2 NO-NC	1/8″ - 1 6 mm tu	/4″ be receptacle	0.5C _v	non plug-in cylinder ports in base with Pr. Reg.	38 mm
OPERATIONAL BENEFITS . Direct solenoid operatec 2. Balanced poppet, immur pressure. 8. Short stroke with high flo 1. The patented solenoid d forces.	ne to variations of ow.				
. Powerful return spring. . Manual operator standa HOW TO ORDER		Reset xx-Hxxx-xxx			
IOW TO ORDER VAL			rsal valve	NC	nly valve
(see l			2		2
					4 \
			7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		/ 10-Hxxx-xxx
OLENOID OPERATO		H <u>xx</u>	x-xx. □		
OLENOID OPERATO	R ►	H XX Wire length	X-XX Manual op	perator	Electrical connection
Solenoid Operato	R ► /]	H <u>xx</u>	x-xx. □		Electrical connection Plug-in wire assy Plug-in wire assy
SOLENOID OPERATO Voltage	R ≻ /) ○ A /) ○ C	Wire length	X-XX Manual op	perator	Electrical connection Plug-in wire assy
SOLENOID OPERATO Voltage Dc 24VDC (1.8 W DB 24VDC (2.4 W DA 24VDC (5.2 V AA 120VAC (must	R ► /)	Wire length	X-XX Manual op	erator MA MC BA BC	Electrical connection Plug-in wire assy Plug-in wire assy with light Flying leads Flying leads with light
Voltage Dc 24VDC (1.8 W Db 24VDC (2.4 W Dd 24VDC (5.2 V AA 120VAC (must rectified conne	$R \succ$ $() \qquad \bigcirc A$ $() \qquad \bigcirc C$ $() \qquad \bigcirc C$ $() \qquad \bigcirc C$ $() \qquad \bigcirc X$ Use with $(ctor)$	Wire length	X-XX Manual op	Derator	Electrical connection Plug-in wire assy Plug-in wire assy with light Flying leads Flying leads with light Plug-in connector with
SOLENOID OPERATO Voltage Dc 24VDC (1.8 W DB 24VDC (2.4 W DA 24VDC (5.2 V AA 120VAC (must	$R \succ$ $() \qquad \bigcirc A$ $() \qquad \bigcirc C$ $() \qquad \bigcirc C$ $() \qquad \bigcirc C$ $() \qquad \bigcirc X$ Use with $(ctor)$	Wire length	X-XX Manual op	MA MA MC BA BC HA	Electrical connection Plug-in wire assy Plug-in wire assy with light Flying leads Flying leads with light
SOLENOID OPERATO Voltage Dc 24VDC (1.8 W DB 24VDC (2.4 W DA 24VDC (5.2 V AA 120VAC (must rectified conne) xx Other Optio	R ► /) O A /) C C V) O X use with ctor) ns	Wire length	Manual or 0 1 Non-locking	MA MA MC BA BC HA	Electrical connection Plug-in wire assy Plug-in wire assy with light Flying leads Flying leads with light Plug-in connector with rectifier and light Other Options
SOLENOID OPERATO Voltage Dc 24VDC (1.8 W DB 24VDC (2.4 W DA 24VDC (5.2 V AA 120VAC (must rectified conne XX Other Optio	R ► /)	H XX Wire length 18" 36" Other Options	Manual or 0 1 Non-locking	erator MA MC BA BC HA C xx EBM37A-C	Electrical connection Plug-in wire assy Plug-in wire assy with light Flying leads Flying leads with light Plug-in connector with rectifier and light Other Options
SOLENOID OPERATO Voltage Dc 24VDC (1.8 W DB 24VDC (2.4 W DA 24VDC (5.2 V A4 120VAC (must rectified conne XX Other Option HOW TO ORDER CIRCU	R ► () A () C () C (H XX Wire length 18" 36" Other Options ORDERED SEPARATELY)** Side cylinde	A X XX Manual op 0 1 Non-locking	Derator MA MC BA BC HA C xx EBM37A-C Bottom cylin	Electrical connection Plug-in wire assy Plug-in wire assy with light Flying leads Flying leads with light Plug-in connector with rectifier and light Other Options DOXXX-XX

** Pressure Regulators :







TECHNICAL 0 A T A

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum 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)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1 bar$) :	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms

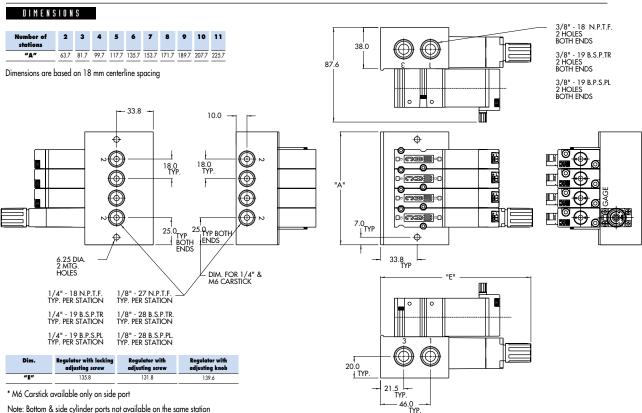
Note :

• Valve and coil are not interchangeable.

Spare parts :

Options :

- Seal between valve and bar : 16630. Mounting screw (x2) : 35043. Blanking plate : M-37001.
- Regulator blanking plate : R-47003.
 - Isolation of inlet and/or exhaust. Special bar. Consult factory. BSPP Threads.



Note: Bottom & side cylinder ports not available on the same station



Function	Port size		Flow (Max)	Circuit bar mounting	Profile
3/2 NO-NC	1/8" - 1 6 mm tu	I/4″ be receptacle	0.5C _v	non plug-in add-on style cylinder ports in base	38 mm
OPERATIONAL BENEFITS . Direct solenoid operated val . Balanced poppet, immune to pressure. . Short stroke with high flow. . The patented solenoid devel forces. . Powerful return spring. . Manual operator standard o	o variations of ops high shifting on all valves. 37A-x	Reset xx-Hxxx-xx			
IOW TO ORDER VALVE I Port size			rsal valve	NC o	niy vaive
(see base			2		2
					T T W
Valve less k	ase	0 37A-C	O-Hxxx-xxx	0 37A-D1	O-H <i>xxx-xxx</i>
Solenoid operator >		H X	x-xx . ŢŢŢ <u></u>		
Voltage		Wire length	Manual	operator	Electrical connection
DC 24VDC (1.8 W)	<u>O A</u>	18″	O 1 Non-lockin		Plug-in wire assy
DB 24VDC (2.4 W)	0 c	36″		Омс	Plug-in wire assy with light
DA 24VDC (5.2 W) AA 120VAC (must use rectified connector) xx Other Options		Other Options	_	BA BC HA XX	Flying leads Flying leads with light Plug-in connector with rectifier and light Other Options
	(ERM37	A-00xxx-xx	\supset	
HOW TO ORDER CIRCUIT B	AR	LDIVIST			
HOW TO ORDER CIRCUIT B			er ports (18 mm)	Bottom cylind	ler ports (18 mm)
	e	Side cylindo	er ports (18 mm)		
	e TF	Side cylindo		EBM37	ler ports (18 mm) A-00EBA-xx 'A-00EBB-xx

Number of stations (03=3 stations)

Note : Clic for valves mounted on base at the factory, add - 9 to the model number. add-a-unit stations may be added to above bars. Clic here for model numbers.





:	Compressed air, vacuum, inert gases
ressure range :	Vacuum to 120 PSI
brication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
tration :	40 µ
mperature range :	0°F to 120°F (-18°C to 50°C)
ifice :	4.3 mm
ow (at 6 bar, ∆P=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
l:	General purpose class A, continuous duty, encapsulated
ltage range :	-15% to +10% of nominal voltage
wer:	5.2 W - 2.4 W - 1.8 W - 1.0 W
ponse times :	Energize : 17.0 ms
th 5.2 W coil)	De-energize : 6.0 ms

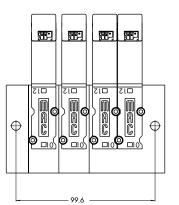
Spare parts :

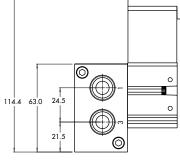
Options :

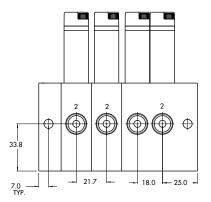
• Seal between valve and bar : 16630. • Mounting screw (x2) : 35043. • Blanking plate : M-37001. • End plate Kit : M-37005-0

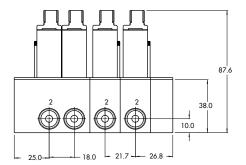
• Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.











Note: Bottom & side cylinder ports not available on the same station



Function	Port size		Flow (Max)	Circuit bar mounting	Profile
3/2 NO-NC	1/8″ - 1/4 6 mm tube		0.5C _v	non plug-in add-a-unit stations	38 mm
DFERATIONAL BENEFITS 1. Direct solenoid operated val 2. Balanced poppet, immune to pressure. 3. Short stroke with high flow. 4. The patented solenoid developeration of the patented solenoid developeration. 5. Powerful return spring. 6. Manual operator standard of the patented solenoid developerator standard so	o variations of ops high shifting In all valves. 37A-xxx	eset (-Hxxx-xxx			
Port size (see base	•	Universe	al valve	NC only v	alve
Valve less k SOLENOID OPERATOR ≻		H XX	K- X XX .	 З7А-DIO-Hx	xx-xxx 7 m
Voltage	W	ire length	Manual op	perator Ele	ctrical connection
Dc 24VDC (1.8 W) DB 24VDC (2.4 W)		8" 6"	O 1 Non-locking	<mark>Омс</mark> Plu	g-in wire assy g-in wire assy h light
DA 24VDC (5.2 W) AA 120VAC (must use rectified connector) xx Other Options	with	her Options		BC Fly HA Plu rec	ing leads ing leads with light g-in connector with tifier and light ner Options
HOW TO ORDER CIRCUIT B		EBM37A- Side cylinder	OOXXX-XX	Bottom cylinder p	orts (18 mm)
1/8" NP 1/4" NP 6 mm tube rec	TF	 EBM37A-(EBM37A-(EBM37A-(EBM37A-001 EBM37A-001 EBM37A-001 EBM37A-001	ECB- XX

Number of stations (01, 02, 03 or 04) Note : Clic for valves mounted on base at the factory, add - 9 to the model number.





TECHNICAL	
D A T A	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum 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)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1 bar$) :	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms

Note :

• Valve and coil are not interchangeable.

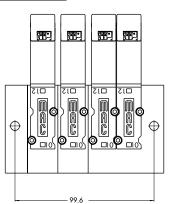
Seal between valve and bar : 16630. • Mounting screw (x2) : 35043. • Blanking plate : M-37001.
O-ring port seal (x2) : 17015-01. • Tie rod (x2) : 79007-01 (one station length)

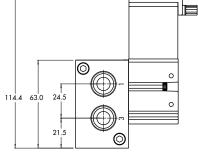
Options :

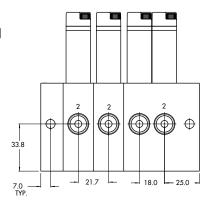
Spare parts :

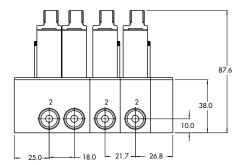
• Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS









Note: Bottom & side cylinder ports not available on the same station



		Floш (Max)	Circuit bar mounting	Profi
/2 NO-NC	1/8" - 1/4" 6 mm tube recep	0.5C _v tacle	plug-in	32.
ERATIONAL BENEFITS			-	~
irect solenoid operated				the start of the s
alanced poppet, immun ressure.	ie to variations of		175 March	
, Short stroke with high flo	W.		11 - 1 - 1	
The patented solenoid de forces.	evelops high shitting			
Powerful return spring.				
Manual operator standar	rd on all valves.			1 A
	(Reset			
			90.	0
DW TO ORDER 🤇	37A-xxx-H			
ow to order valu	E FOR CIRCUIT BAR MOUN	TING		
Port		Universal valve	NC only v	alve
(see b	ase)	2	2	
				v m
		37A-C1O-HxxP-xxx		3 2
Valve les				
Valve les				
		H <u>xx</u> P- <u>x xx</u> *		
LENOID OPERATOR		H <u>xx</u> P- <u>x xx</u>		
LENOID OPERATOR	<>	H XX P- X XX Manual operator	XX Electrical conn	
DLENOID OPERATOR XX Voltage Dc 24VDC (1.8 W		H <u>xx</u> P- <u>x xx</u>	XX Electrical conn FA Plug-in	
DLENOID OPERATOR XX Voltage DC 24VDC (1.8 W DB 24VDC (2.4 W	x 0 1	H XX P- X XX Manual operator	XX Electrical conn FA Plug-in Fc Plug-in with light	ection
LENOID OPERATOR XX Voltage DC 24VDC (1.8 W DB 24VDC (2.4 W DA 24VDC (5.2 W		H XX P- X XX Manual operator	XX Electrical conn FA Plug-in FC Plug-in with light FE Plug-in with suppr	ection ression diode
LENOID OPERATOR XX Voltage Dc 24VDC (1.8 W DB 24VDC (2.4 W DA 24VDC (5.2 W AA 120VAC (Mod.	X > X 1 1 1 No. required see below)	H XX P- X XX Manual operator	XX Electrical conn FA Plug-in Fc Plug-in with light FE Plug-in with suppr FG Plug-in with suppr	ection ression diode
ENOID OPERATOR XX Voltage DC 24VDC (1.8 W DB 24VDC (2.4 W DA 24VDC (5.2 W	X > X 1 1 1 No. required see below)	H XX P- X XX Manual operator	XX Electrical conn FA Plug-in FC Plug-in with light FE Plug-in with suppr	ection ression diode ression diode

ECD37A-00AAG-A0xx

ECD37A-01AAA-C0xx

ECD37A-01AAB-COXX

ECD37A-01AAG-C0xx

Consult "Precautions" before use, installation or service of MAC Valves.

18

30

30

30

6 mm tube receptacle 1/8" NPTF

1/4" NPTF

6 mm tube receptacle

Note : Cic for valves mounted on base at the factory, add - 9 to the model number.

for AC voltage use mod. FWR2 after circuit bar model number.

clic for multi-pin connector (9, 15 or 25).

Number of stations (03=3 stations)

A0 = without light
 AA = with light (120V)
 AB = with light (240V)
 AD = with light (24V)
 C0 = terminal strip

ECD37A-00BAG-A0XX

C ECD37A-01BAA-COXX

ECD37A-01BAB-C0xx ECD37A-01BAG-C0xx

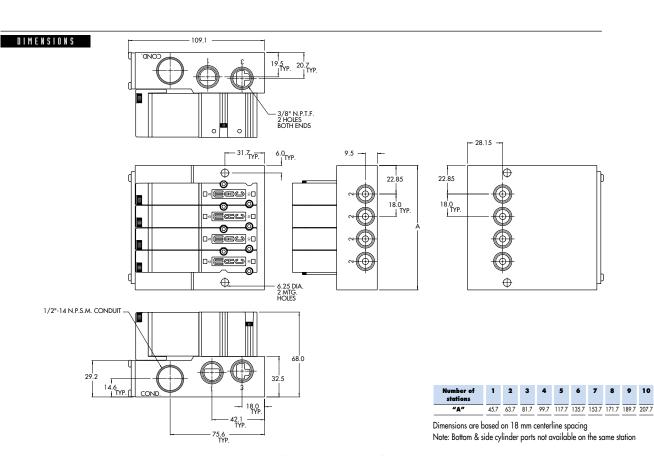




TECHNICAL Doto	
-1 - 1	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to 50°C)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1 bar)$:	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms

Note : Spare parts : • Valve and coil are not interchangeable.

- Seal between valve and bar : 16630. Mounting screw (x2) : 35043. Blanking plate : M-37001.
- Options :
- Base wire plug-in protector : 16520.
 Isolation of inlet and/or exhaust. Special bar. Consult factory.
 BSPP Threads.





Function	Port size	Flow (Max)	Circuit bar mounting	Profile
3/2 NO-NC	1/8″ - 1/4″	0.5C _v	plug-in with Pr. Reg.	44 mm
OPERATIONAL BENEFITS				~
I. Direct solenoid operated				The second se
 Balanced poppet, immun pressure. 	e to variations of		1-12	
3. Short stroke with high flo				1'
 The patented solenoid de forces. 	velops high shifting			
5. Powerful return spring. 6. Manual operator standar	d on all valves			
o. manual operator standar			ASS	
	Reset		CALT -	0
	(Kesel	/	00000	W
	274 2020			
HOW TO ORDER	37A-xxx-H		0	
HOW TO ORDER VALV	E FOR CIRCUIT BAR MOUN	ITING		
Port		Universal valve	NC only va	lve
(see b	ase)	2	2	
				w
Valve les	s base	<u>37A-C1O-HxxP-xxx</u>	<u>1 3</u> 37A-D1O-Hxx	P- XXX
Solenoid Operator	>	H <u>xx</u> P- <u>x xx</u> *		
XX Voltage	X	Manual operator	XX Electrical connec	ction
24VDC (1.8 W)	01	Non-locking	FA Plug-in	
DB 24VDC (2.4 W)			FC Plug-in with light	
DA 24VDC (5.2 W			FE Plug-in with suppres	
-	No. required see below)		FG Plug-in with suppres	ssion diode
O xx Other Option	าร		with LED light	
			O xx Other Options	
	N" CIRCUIT BAR (REGULATOR:		ECD37A-xxxxx	-xxxx)
	· · ·			
Port	Size	Spacing mm	Bottom cylinde	er ports
1 /0// 1	NDTF	18		
1/8″		18	ECD37A-00CD4	
1/8" 1/4" 1/8"	NPTF			3-A0 xx

Number of stations (03=3 stations) ** Other options available, consult factory.

Note : Clic for valves mounted on base at the factory, add - 9 to the model number. clic for multi-pin connector (9, 15 or 25). for AC voltage use mod. FWR2 after circuit bar model number.

** Pressure Regulators : PR37A-GOAx X=A (0 to 120 PSI) X=B (0 to 80 PSI) X=C (0 to 30 PSI)

A0 = without light
AA = with light (120V)
AB = with light (240V)
AD = with light (24V)
C0 = terminal strip
CA = terminal strip with light (120V)
CB = terminal strip with light (240V)
CD = terminal strip with light (24V)





A T A	
:	Compressed air, vacuum, inert gases
e range :	Vacuum to 120 PSI
tion :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
n :	40 μ
erature range :	0°F to 120°F (-18°C to 50°C)
:	4.3 mm
t 6 bar, ∆P=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
	General purpose class A, continuous duty, encapsulated
e range :	-15% to +10% of nominal voltage
:	5.2 W - 2.4 W - 1.8 W - 1.0 W
onse times :	Energize : 17.0 ms
5.2 W coil)	De-energize : 6.0 ms

Spare parts :

Seal between valve and bar : 16630.
Mounting screw (x2) : 35043.
Blanking plate : M-37001.
Base wire plug-in protector : 16520.
Regulator blanking plate : R-47003.

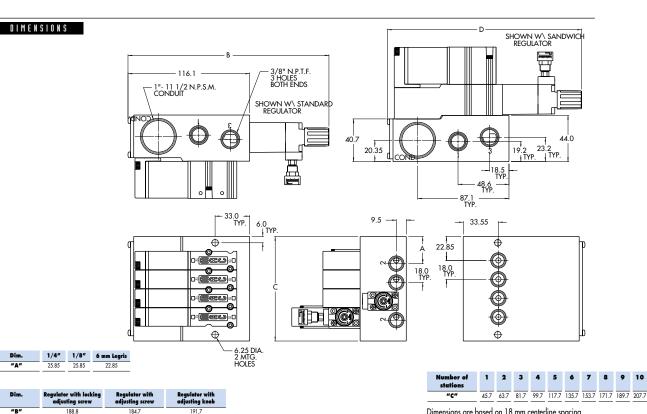
• Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

Options :

182.5

178.4

185.4



Dimensions are based on 18 mm centerline spacing Note: Bottom & side cylinder ports not available on the same station



nction	Port size	Flow (Max)	Circuit bar r	nounting	Profile
/2 NO-NC	1/8" - 1/4" 6 mm tube receptacle	0.5C _v	add-on style plug-in		44 mm
PERATIONAL BENEFITS					
Direct solenoid operated valve. Balanced poppet, immune to vo					
pressure. Short stroke with high flow. The patented solenoid develops forces.	s high shifting				
rorces. Powerful return spring. Manual operator standard on a	ıll valves.				
	Reset				
IOW TO ORDER	37A-xxx-HxxP-x	(XX			
OW TO ORDER VALVE FO Port size	R CIRCUIT BAR MOUNTING	Jniversal valve		NC only valve	
(see base)		2			
Valve less bas	ie 🕂 🔿 3	1 3 7A-C1O-HxxP-xxx	(37A-D1O-HxxP-xxx	
XX Voltage) DC 24VDC (1.8 W)) DB 24VDC (2.4 W)) DA 24VDC (5.2 W)	-	val operator ocking	O FA O FC	lectrical connection Plug-in Plug-in with light Plug-in with suppression diode	
) AA 120VAC (Mod. No. re	equired see below)			Plug-in with suppression diode	
) xx Other Options				with LED light	
ow to order "Plug-In" ci		37A-xxxxx-xxxx		Other Options	
Port size	Spacing mm	Side cylinder	ports	Bottom cylinder ports	
1/8" NPTF	18	C ECD37A-00AEA	A-A0 xx	CD37A-00BEA-A0xx	
1/4" NPTF	18	ECD37A-00AEE	3-A0 xx	ECD37A-00BEB-A0xx	
6 mm tube receptacle	18	ECD37A-00AEC		ECD37A-00BEG-A0xx	_
1/8" NPTF	30	O ECD37A-01AEA		ECD37A-01BEA-COXX	
1/4" NPTF 6 mm tube receptacle	30 30	CCD37A-01AE		ECD37A-01BEB-C0xx	
umber of stations (03=3 stations) Oth <u>er o</u> ptions available, consult fa	actory. 1 base at the factory, add - 9 to the model 1		\bigcirc A0 = with \bigcirc AA = with \bigcirc AB = with \bigcirc AD = with	out light light (120V) light (240V)	





TECHNICAL DA TA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum 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)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1 bar)$:	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms

Note : Spare parts : • Valve and coil are not interchangeable.

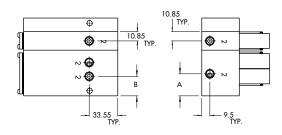
Seal between valve and bar : 16630.
Mounting screw (x2) : 35043.
Blanking plate : M-37001.
End plate kit : M-37003-01
Base wire plug-in protector : 16520.
Isolator disc between add-a-units : 28438.

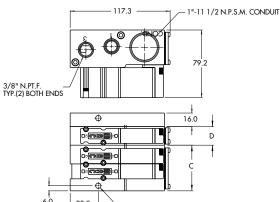
Options :

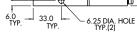
Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

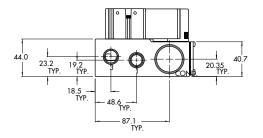
DIMENS										
Number of stations	1	2	3	4	5	6	7	8	9	10
"C" w/regulator	•	53.6	71.6	89.6	107.6	125.6	143.6	161.6	179.6	197.6
"C" w/o regulator	•	51.85	69.85	87.85	105.85	123.85	141.85	159.85	177.85	195.85
"D"	21.7	39.7	57.7	75.7	-	•	•	•	•	•

Dimensions are based on 18 mm centerline spacing Note: Bottom & side cylinder ports not available on the same station









Dim.	1/8″	1/4″	6 mm Legris	1/8" w/regulator	1/4" w/regulator
"A"	22.65	24.20	22.85	-	
"B"	22.85	22.85	25.85	21.20	22.60



unction	Port size	Flow (Max)	Circuit bar mounting	Profile
2 NO-NC	1/8" - 1/4"	0.5¢ _v	add-on style plug in with Pr. Reg.	44 mm
RATIONAL BENEFITS				
rect solenoid operated vo lanced poppet, immune				
essure.				
Short stroke with high flow. The patented solenoid deve forces.				
Powerful return spring.				
Manual operator standard	on all valves.			
	Reset)		
HOW TO ORDER	37A-xxx-Hx	(P-xxx		
) W to order valve	FOR CIRCUIT BAR MOUNTI	NG		
Port siz (see bas		Universal valve	NC only valu	ve
				w
Valve less	hase	37A-C1O-HxxP-xxx		- * * *
X Voltage	x O 1	Manual operator	XX Electrical connect	tion
) DB 24VDC (2.4 W)	`		O FC Plug-in with light	
DA 24VDC (5.2 W)			O FE Plug-in with suppress	sion diode
AA 120VAC (Mod. N	lo. required see below)		FG Plug-in with suppress	sion diode
xx Other Options	S		with LED light	
		C		
OW TO ORDER "PLUG-IN Port si	N" CIRCUIT BAR (REGULATORS C	RDERED SEPARATELY)**	ECD37A-XXXX- Bottom cylinder	
Port Si	16	spacing mm	Borrom cylinder	r ports
1/8″ N		18	ECD37A-00CEA-	
1/4″ N		18	ECD37A-00CEB-	
1/8″ N 1/4″ N		30	ECD37A-01CEA-	
nber of stations (03=3 station Dther options available, cons e : clic for valves mounte		model number. ••• Pressure Regulators PR37A-C X=A (0 to 120 f	GOAX O AA = with light (1 AB = with light (2 AB = with light (2	20V) 40V)





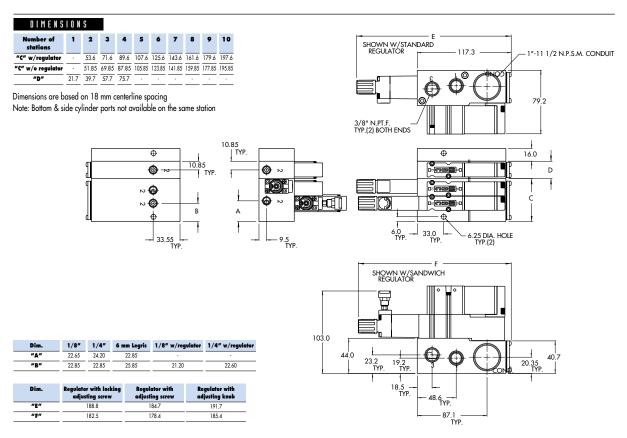
TECHNICAL	
D A T A	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to 50°C)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1 bar)$:	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms
Note :	Valve and coil are not interchangeable.

Spare parts :

Options :

• Seal between valve and bar : 16630. • Mounting screw (x2) : 35043. • Blanking plate : M-37001. • End plate kit : M-37003-01 • Base wire plug-in protector : 16520. • Isolator disc between add-a-units : 28438.

• Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.



Consult "Precautions" before use, installation or service of MAC Valves.



unction	Port size	Floш (Max)	Circuit bar mo	unting
/2 NO-NC	1/8" - 1/4" 6 mm tube receptacle	0.5C _v	plug-in add-a-unit stations	
PERATIONAL BENEFITS				
Direct solenoid operated v Balanced poppet, immune				
pressure. Short stroke with high flow				
The patented solenoid dev				
forces. . Powerful return spring.				
Manual operator standard	on all valves.			
	Reset			
HOW TO ORDER	37A-xxx-HxxP-x	xx)		
	FOR CIRCUIT BAR MOUNTING		_	
Port si (see ba		niversal valve		NC only valve
	÷			
Valve less	base O 37	A-C1O-HxxP-xxx	0	37A-D1O-H xx P- xxx
	. н	xx P- x xx [.]		
	• 11			
XX Voltage	X Manue	al operator	XX Ele	ctrical connection
DC 24VDC (1.8 W)	O 1 Non-lo	cking	O FA Plu	g-in
DB 24VDC (2.4 W)			O FC Plu	g-in with light
DA 24VDC (5.2 W)				g-in with suppression diode
	lo. required see below)		-	g-in with suppression diode
xx Other Option	3			h LED light her Options
		7		
IOW TO ORDER "PLUG-IN	V" CIRCUIT BAR**	7A-xxxxx-xxxx		
Port size	Spacing	Side cylinde	er ports	Bottom cylinder ports
	mm			
1/8" NPTF	18	ECD37A-00A		ECD37A-00BFA-A0xx
1/4" NPTF	18	ECD37A-00A		ECD37A-00BFB-A0xx
6 mm tube recepta 1/8" NPTF	18 30	ECD37A-00A		ECD37A-00BFG-A0xx ECD37A-01BFA-C0xx
1/4" NPTF		ECD37A-01A		C ECD37A-01BFB-COXX
6 mm tube recepta		ECD37A-01A		C ECD37A-01BFG-C0xx
				0
	ns) - maximum length is 4 stations.		O A0 = without O AA = with lig	
			O AA = with light O AB = with light O	nt (240V)
* Other options available, cons Note : clic for valves mount	ed on base at the factory, add - 9 to the model nu	imper.		
Note : clic for valves mount for AC voltage use m	ed on base at the factory, add - 9 to the model nu nod. FWR2 after circuit bar model number.		🔾 AD = with lig	ht (24V)
lote : clic for valves mount for AC voltage use m when add-a-unit stat			O AD = with lig O C0 = termina O CA = termina	ht (24V)





TECHNICAL DA TA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum 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)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1 bar)$:	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms

Note :

• Valve and coil are not interchangeable.

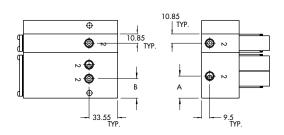
Seal between valve and bar : 16630.
Mounting screw (x2) : 35043.
Blanking plate : M-37001.
O-ring port seal (x2) : 17015-01
Tie rod (x2) : 79007-01 (one station length).

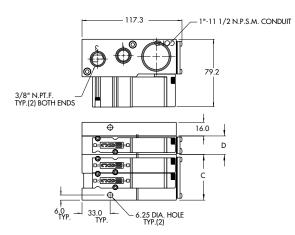
Spare parts : Options :

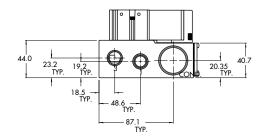
- Isolation of inlet and/or exhaust. Special bar. Consult factory. BSPP Threads.

DIMENS	I O N	S								
Number of stations	1	2	3	4	5	6	7	8	9	10
"C" w/regulator	•	53.6	71.6	89.6	107.6	125.6	143.6	161.6	179.6	197.6
"C" w/o regulator	•	51.85	69.85	87.85	105.85	123.85	141.85	159.85	177.85	195.85
"D"	21.7	39.7	57.7	75.7	·	•	•	·	·	•

Dimensions are based on 18 mm centerline spacing Note: Bottom & side cylinder ports not available on the same station







Dim.	1/8″	1/4″	6 mm Legris	1/8" w/regulator	1/4" w/regulator
"A"	22.65	24.20	22.85	-	-
"B"	22.85	22.85	25.85	21.20	22.60



	Port size	Flow (Max)	Circuit bar mounting	Profi
3/2 NO-NC	1/8″ - 1/4″	0.5¢ _v	plug-in add-a-unit stations with Pr. Reg.	44 n
DPERATIONAL BENEFITS				
Direct solenoid operated vo Balanced poppet, immune pressure. Short stroke with high flow. The patented solenoid deve forces. Powerful return spring.	to variations of elops high shifting			
Manual operator standard	on all valves.			
	Rese			
HOW TO ORDER	37A-xxx-H	xxP-xxx		
OW TO ORDER VALVE	FOR CIRCUIT BAR MOU			
Port siz (see bas		Universal valve	NC only va	live
				<u>]</u> w
Valve less	base	37A-C1O-HxxP-xxx	0 37A-D10-Hx	3 (P- XXX
DLENOID OPERATOR >	•	H <u>xx</u> P- <u>x xx</u> .		
	r X	Manual operator	XX Electrical conne	ction
XX Voltage				
XXVoltageDC24VDC (1.8 W)	0 1	Non-locking	🔵 🗚 Plug-in	
-	<u>ا (</u>	Non-locking	FA Plug-in Fc Plug-in with light	
DC 24VDC (1.8 W)	<u> </u>	Non-locking		ession diode
DC 24VDC (1.8 W) DB 24VDC (2.4 W) DA 24VDC (5.2 W)	lo. required see below)	Non-locking	FC Plug-in with light FE Plug-in with suppre F6 Plug-in with suppre	
DC 24VDC (1.8 W) DB 24VDC (2.4 W) DA 24VDC (5.2 W)	lo. required see below)	Non-locking	FC Plug-in with light	ession diode

Number of stations (03=3 stations) - maximum length is 4 stations.

1/4" NPTF

** Other options available, consult factory.

Note : Cic for valves mounted on base at the factory, add - 9 to the model number. for AC voltage use mod. FWR2 after circuit bar model number. when add-a-unit stations are added to bars with a multi-pin connector, mod SD03 should be included with add-a-unit model number.

** Pressure Regulators : PR37A-GOAx

X=A (0 to 120 PSI) X=B (0 to 80 PSI) X=C (0 to 30 PSI)

A0 = without light
AA = with light (120V)
AB = with light (240V)
AD = with light (24V)
C0 = terminal strip
CA = terminal strip with light (120V)
CB = terminal strip with light (240V)
CD = terminal strip with light (24V)

ECD37A-01CFB-C0xx

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TECHNICAL	
D A T A	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum 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)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1bar$) :	5.2 W : 0.50C _v , 2.4 W : 0.25C _v , 1.8 W : 0.15C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 17.0 ms
(with 5.2 W coil)	De-energize : 6.0 ms

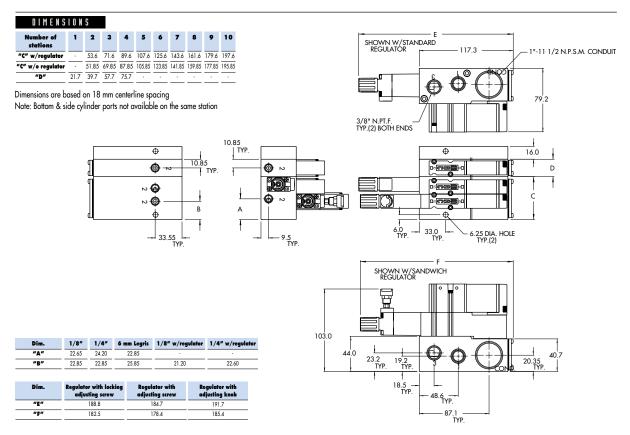
Note :

Spare parts :

Options :

• Valve and coil are not interchangeable.

- Seal between valve and bar : 16630. Mounting screw (x2) : 35043. Blanking plate : M-37001.
 O-ring port seal (x2) : 17015-01 Tie rod (x2) : 79007-01 (one station length). Regulator blanking plate : R-47003.
- - Isolation of inlet and/or exhaust. Special bar. Consult factory. BSPP Threads.





Section 2

Options



Codification table for voltages / Wire length / Manual operators / Electrical connections

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VALVE CODE \blacktriangleright

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

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OPTIONS AVAILABLE FOR

- Solenoid valves 37 & 47 Series





	1. VOLTAGE
- H XX X - X XX	VOLTAGE
	DC Options
O DA	24 VDC (5.2 W)
O DB	24 VDC (2.4 W)
O DC	24 VDC (1.8 W)
O DD	24 VDC (1.0 W)
O DF	12 VDC (5.2 W)
O DG	12 VDC (2.4 W)
Орн	12 VDC (1.8 W)
<u>са О</u>	12 VDC (1.0 W)
	120 VDC (6.3 W)
	AC Options (50/60hz)
	120 VAC (6.7 W)
O AB	220 VAC (5.6 W)
O AC	240 VAC (5.8 W)
O AD	24 VAC (7.8 W)
Note : AC Voltages on	ly available with "H" & "F" type connectors. MOD FWR2 must be used with the "F" type connectors.

2. WIRE LENGTH

- H XX	X - X XX	WIRE LENGTH	
0	0	No lead wire	
0	Α	18″	
0	В	24"	
0	С	36″	
0	D	48″	
0	E	72"	
0	F	96″	
0	G	120″	
0	Н	144"	
0	Р	Plug-in (used only with "F"type connector Opts.)	
Use "O" with MJ & MM Opts.			

3. MANUAL OPERATOR

- H XX	x - x xx	MANUAL OPERATOR
0	0	No operator
0	1	Non-locking recessed
0	2	Locking recessed
0	3	Non-locking extended
0	4	Locking extended

© OPTIONS

0	П		i	0	Π	
0	F	4				

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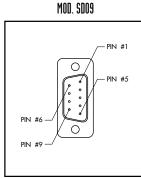
4. ELECTRICAL CONNECTION					
- H XX X - X XX	ELECTRICAL CONNECTION				
ОВА	Flying leads				
ВВ	Flying leads with ground wire				
ОВС	Flying leads with led light				
O BD	Flying leads with led light & ground wire				
O BE	Flying leads with suppression diode				
O BF	Flying leads with suppression diode & ground wire				
BG	Flying leads with suppression diode plus led light				
О ВН	Flying leads with suppression diode plus led light & ground wire				
О ВН О *ВN О *ВР	Flying leads with suppression diode plus blocking diode				
○ *BP	Flying leads with suppression diode plus blocking diode & ground wire				
• BR	Flying leads with suppression diode plus blocking diode & led light				
○ *BS	Flying leads with suppression diode plus blocking diode & led light & ground wire				
<u> </u>					
O FA	Plug-in				
O FB	Plug-in with ground wire				
O FC	Plug-in with led light				
O FD	Plug-in with led light & ground wire				
O FE	Plug-in with suppression diode				
O FF	Plug-in with suppression diode & ground wire				
FG	Plug-in with suppression diode plus led light				
O FH	Plug-in with suppression diode plus led light & ground wire				
<u> </u>	Note : FA FH options for use with ECD type circuit bars				
ОНА	Circuit board plug-in with full wave rectifier & led light				
О НВ	Circuit board with full wave rectifier & led with ground wire				
Онс	Same as "HA" without lead wires				
O HD	Same as "HB" without lead wires				
O HL	Circuit board plug-in with suppression diode plus blocking diode & led light				
O HN	Same as "HL" without lead wires				
О ма	Plug-in wire assembly				
ОМВ	Plug-in wire assembly with ground wire				
Омс	Plug-in wire assembly with led light				
O MD	Plug-in wire assembly led light & ground wire				
O ME	Plug-in wire assembly with suppression diode				
O MF	Plug-in wire assembly with suppression diode & ground wire				
→ MG	Plug-in wire assembly suppression diode plus led light				
О *мн	Plug-in wire assembly suppression diode plus led light & ground wire				
*MG O *MH O *MN O *MP O MR O MS O MJ	Plug-in wire assembly with suppression diode plus blocking diode				
○ * MP	Plug-in wire assembly with suppression diode plus blocking diode & ground wire				
O MR	Plug-in wire assembly with suppression diode plus blocking diode & led light				
О м5	Plug-in wire assembly with suppression diode plus blocking diode & led light & ground wire				
Омл	Plug-in housing w/o wire assembly ("MA" option without wire assembly)				
O MM	Plug-in housing w/o wire assembly ("MB" option without wire assembly)				
* Blocking diode is in lead wire.					



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TECHNICAL DATA

- Type «SUB_D»
- Number of contacts : 9
- Number of contacts : 9
 Solder termination (Dia. 0.6 mm/0.14 mm²/26-22 AWG)
 Operating current 5 A/contact
 Rated voltage 125 V~
 Temp. range -40° to +125°C
 Insulation resistance ≥ 5.0° Ω
 Protection class IP40 (DIN 40050)
 Number of solenoide : 7 mm

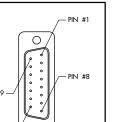
- Number of solenoids : 7 max.
 Max. 24 V=/5.4 W per solenoid
- 2 common wires





PIN

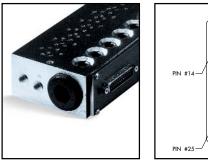
PIN #15



TECHNICAL DATA

- Type «SUB_D»
- Number of contacts : 15
 Solder termination (Dia. 0.6 mm/0.14 mm²/26-22 AWG)

- Solder termination (Dia. 0.6 mm/0)
 Operating current 5 A/contact
 Rated voltage 125 V~
 Temp. range -40° to +125°C
 Insulation resistance ≥ 5.0° Ω
 Protection class IP40 (DIN 40050)
- Number of solenoids : 12 max.
- Max. 24 V=/5.4 W per solenoid
- 3 common wires



MOD. SD25

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- PIN #1

TECHNICAL DATA

- Type «SUB_D»
- Number of contacts : 25
- Number of contacts : 25
 Solder termination (Dia. 0.6 mm/0.14 mm²/26-22 AWG)
 Operating current 5 A/contact
 Rated voltage 125 V~
 Temp. range -40° to +125°C
 Insulation resistance ≥ 5.0° Ω
 Description = 10.0 (DNL 40250)

- Protection class IP40 (DIN 40050)
- Number of solenoids : 20 max.
- Max. 24 V=/5.4 W per solenoid
- 5 common wires

0

Note : Use desired MOD. number after circuit bar part number

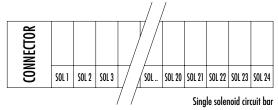
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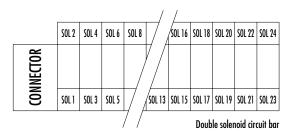
p t i o n

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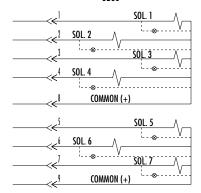


Connector termination details









SD15

¹ SOL. 2 ∧ ¹
4 SOL.4 /
<< <u>21</u> COMMON (+)
Sol. 6
SUL / A
V
² COMMON (+)
\$ SOL. 9
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
·®
iii SOL. 16
II SOL.18 ∧
Sol. 20
¦⊗V
¹⁵ COMMON (+)

SD25

.1	SOL. 1 🔥
	/V
	<u>SOL. 3</u>
	¦⊗V
``⊗V.	
COMMON (+	.)
{<<	SOL. 5
	¦⊗V
V	
	.)
</td <td><u></u></td>	<u></u>
	V
	•
	<b>SOL.</b> ]]]/
V	
	.)