

• Universal porting - 6 functions in one valve.



Function Port size		Flow (Max)		Individual mounting			Series	
/2 NO-NC	1/8″ - 1/	4″ 0.5 C,	,		Inline			
PERATIONAL BENEFITS								33
Balanced poppet equals con forces.	nsistent high shifting							34
Valve shifting forces are con of pressure fluctuations. High solenoid and return spr	ring forces ensure high							36
speed and precise repeatab Built-in wear compensation – than solenoid stroke.	- valve stroke is shorte	r			-	6	21/	32
Constant high flow maintain pressure range.	ed throughout the				C			37
Exhaust contaminants are iso Full flow exhaust.	olated from the solenoi	id.				0		38
Universal porting – 6 functio	ons in one valve.					0		52
HOW TO ORDER								67
Port size		Universal valve			NC only valve		only valve	69
			2				2	44
		<u></u> <u>⊢</u>				Ц		46
1/8″ NPT		<u>13</u> -H XXX-XX	x		37A-B/	1 3 A0-H xxx-xxx	40	
1/4" NPTF		37A-ABO-H xxx-xxx		37A-BBO-H xxx-xxx		4.0		
								42
OLENOID OPERATOR >		H <u>XX</u>	X- <u>X</u> X	K,				47
			ፓ					48P
XX Voltage	X V	Vire length	X	Manual ope	rator	ХХ	Electrical connection**	
AA 120 VAC (6.7W) DA 24 VDC (5.2W)		8″ 24″	1	Non-locking rece Locking recessed	ssed	MA MC	Plug-in wire assembly Plug-in wire assembly with	48
DB 24 VDC (2.4W)		.4		LOCKING Tecessed			light	
DC 24 VDC (1.8W)					_	BA BC	Flying leads Flying leads with light	400
						MT	Plug-in wire assembly with rectifier & light	400
ote : AC voltage requires connec	ctor with rectifier.				_			92
Other options available, see po	age 315.							
								93
								ISO 01
								130 V I

ISO 02

ISO 1

ISO 2





TECHNICAL DATA

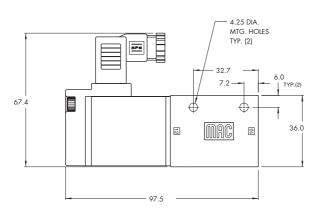
Fluid :	Compressed air, vacuum, inert gases					
Pressure range :	Vacuum to 120 PSI					
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)					
Filtration :	40 μ					
Temperature range :	0°F to 120°F (-18°C to +50°C)					
Flow :	$5.2 \text{ W} : (0.5 \text{ C}_{\text{v}}) - 2.4 \text{ W} : (0.35 \text{ C}_{\text{v}})$					
Coil :	Class A wire (#22 AWG x 18), continuous duty					
Voltage range :	-15% to +10% of nominal voltage					
Power:	5.2 W - 2.4 W					
Response times :	Energize : 16.9 ms					
(with 5.2 W coil)	De-energize : 6.7 ms					

Options :

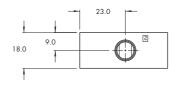
• BSPP ports

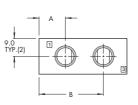
DIMENSIONS

Dimensions shown are metric (mm)



Shown with Mini Square Connector ("K" Type)





Dim	A	В
1/8″	13.3	32.45
1/4″	14.7	33.7

Consult "Precautions" page 327 before use, installa ion or serv ce of MAC Valves..



Function	Port size	Flow (M	ax]	Individual r	mounting	Series
2/2 NO-NC 1/8" - 1/4"		/4" 0.5 C	0.5 C _v			
OPERATIONAL BENEFITS						33
1. Balanced poppet equals co					-	34
 Valve shifting forces are co pressure fluctuations. High solenoid and return s speed and precise repeata 	pring forces ensure hig bility.	յհ		/		36
 Built-in wear compensation solenoid stroke. Constant high flow maintai 						32
range. 6. Exhaust contaminants are i	solated from the solen	oid.				37
7. Full flow exhaust. 8. Universal porting – 6 functi	ions in one valve					38
or entrelear permig e terrer					- 0	52
HOW TO ORDER						67
Port size		Univer	Universal valve		NC only valve	69
			2		2	44
			ŢŢ,			46
Valve less	37A-C10)-H xxx-xxx		37A-D10-H xxx-x		
1/8" NPTF			A-H XXX-XXX		37A-DAA-H xxx->	
1/4" NP	TF	37A-CB4	-Н ххх-ххх		37A-DBA-H xxx-x	XX
SOLENOID OPERATOR >	•	НХХ	X-XXX [*]			47
			T Ľ –			48P
XX Voltage	X	Wire length	X M	anual operator	XX Electric	al connection
AA 120 VAC (6.7W)	A	18″	1 No	n-locking recessed	MA Plug-in w	ire assembly 48
DA 24 VDC (5.2W) DB 24 VDC (2.4W)	В	24″	2 Loc	king recessed	with light	
DC 24 VDc (1.8W)					BA Flying lea BC Flying lea	ds with light 400
					MT Plug-in w rectifier 8	ire assembly with light 92
Note : AC voltage requires conn Other options available, see p	ector with rectifier.					
	Juge 515.					93
Base only :						ISO 01
37A-0AA (1/8")						ISO 02
37A-0BA (1/4")						100 01
						ISO 1

- ISO 1 ISO 2
- ISO 2



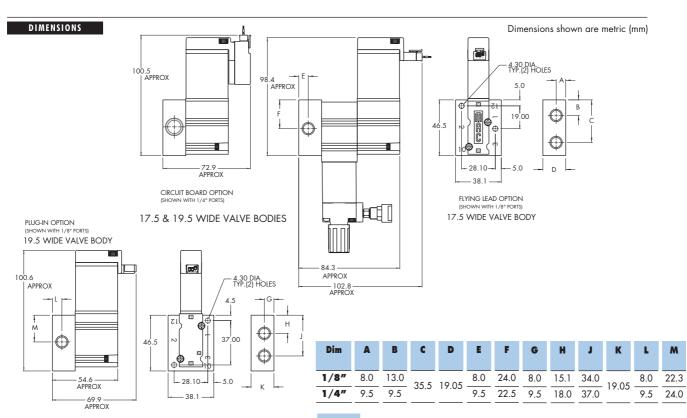


TECHNICAL DATA

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)					
Flow :	$\overline{5.2 \text{ W}: (0.5 \text{ C}_{v}) - 2.4 \text{ W}: (0.35 \text{ C}_{v})}$					
Coil :	Class A wire (#22 AWG x 18), continuous duty					
Voltage range :	-15% to +10% of nominal voltage					
Power:	5.2 W - 2.4 W					
Response times :	Energize : 16.9 ms					
(with 5.2 W coil)	De-energize : 6.7 ms					

Options :

• BSPP ports • Sandwich regulator - see "Regulator" Section



Consult "Precautions" page 327 before use, installation or service of MAC Valves...



Codification table for voltages / Manual operators / Electrical connections

VALVE CODE >

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

OPTIONS AVAILABLE FOR

- Solenoid valves 37 & 47 Series



BK

BA with full wave rectifier

	1. VOLTAGE	H-XX X-X XX	
		BL	BA with full wave rectifier & ground wire
н-хх х-х хх	VOLTAGE	BT	BA with full wave rectifier plus light
AA	120/50, 120/60 (6.7 W) (use connector with rectifier)	BU	BA with full wave rectifier plus light & ground wire
AB	220/50, 220/60 (5.6 W)	н-хх х-х хх	PLUG-IN CONNECTOR
	(use connector with rectifier)	FA	Base plug-in
AC	240/50, 240/60 (5.8 W)	FB	FA with ground wire
	(use connector with rectifier)	FC	FA with light
AD	24/50, 24/60 (7.8 W) (use connector with rectifier)	FD	FA with light & ground wire
		FE	FA with suppression diode
DA	24 VDC (5.2 W)	FF	FA with suppression diode & ground wire
DB	24 VDC (2.4 W)	FG	FA with suppression diode & light
DC	24 VDC (1.8 W)	FH	FA with suppression diode plus light & ground wire
DD	24 VDC (1.0 W)	FK FL	FA with full wave rectifier
DF	12 VDC (5.2 W)		FA with full wave rectifier & ground wire
DG	12 VDC (2.4 W)	*FN	FA with suppression diode plus blocking diode
DH DJ	12 VDC (1.8 W) 12 VDC (1.0 W)	*FP *FR	FA with suppression diode plus blocking diode & ground wi
DJ	12 VDC (1.0 W)	*FS	FA with suppression diode plus blocking diode plus light FA with suppression diode plus blocking diode & light &
DL	120 VDC (8.3 W)	75	ground wire
	2. WIRE LENGTH	FT	FA with full wave rectifier plus light
		FU	FA with full wave rectifier plus light & ground wire
H-XX X-X XX	WIRE LENGTH	MA	Solenoid plug-in wire assembly
0	No lead wire (use with "MJ, MM & K Type connectors)	MB	MA with ground wire
A	18"	МС	MA with light
B	24"	MD	MA with light & ground wire
C	36"	ME	MA with suppression diode
D	48"	MF	MA with suppression diode & ground wire
E	72"	MG	MA with suppression diode plus light
F	96"	МН	MA with suppression diode plus light & ground wire
G	120"	МК	MA with full wave rectifier
Н	144"	ML	MA with full wave rectifier & ground wire
		*MN	MA with suppression diode plus blocking diode
	3. MANUAL OPERATOR	*MP	MA with suppression diode plus blocking diode & ground wi
		*MR	MA with suppression diode plus blocking diode & light
H-XX X-X XX 0		*MS	MA with suppression diode plus blocking diode & light & ground wire
1	No operator Non-locking recessed	MT	MA with full wave rectifier plus light
2	Locking recessed	MU	MA with full wave rectifier plus light & ground wire
3	Non-locking extended	MJ	Plug-in housing without wire assembly ('MA' option
4	Locking extended	1113	without wire assembly)
		MM	Plug-in housing without wire assembly ('MB' option
	4. ELECTRICAL CONNECTION		without wire assembly)
		КА	Mini square connector
н-хх х-х хх	ELECTRICAL CONNECTION	КВ	KA with suppression diode
BA	Flying leads	КС	KA with M.O.V.
BB	BA with ground wire	KD	KA with light
BC	BA with light	KE	KA with light & suppression diode
BD	BA with light & ground wire	KF	KA with light & M.O.V.
BE	BA with suppression diode	КЈ	Mini square connector – male only
BF	BA with suppression diode & ground wire	КК	KJ with suppression diode
BG	BA with suppression diode plus light	KL	KJ with M.O.V.
BH	BA with suppression diode plus light & ground wire	КМ	KA with full wave rectifier
*BN	BA with suppression diode plus blocking diode	KN	KA with full wave rectifier & M.O.V.
*BP	BA with suppression diode plus blocking diode & ground wire	КР	KA with full wave rectifier & light
*BR	BA with suppression diode plus blocking diode & light	KR	KA with full wave rectifier plus light & M.O.V.
*BS	BBA with suppression diode plus blocking diode & light &	KS	KJ with full wave rectifier
	ground wire		