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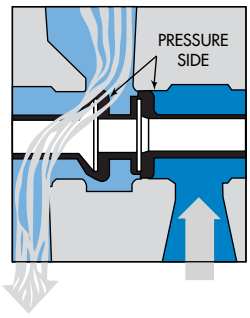
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Find the *MAC PME-501JD* at our website: *Click HERE*

SPOOLS/BODIES

MAC flow seals are bonded to an aluminum spool, machine ground to a very close tolerance, and chemically surface hardened. The bore of the bodies is finished to a close tolerance, work hardened and polished. The result of these processes on the spool and bore keeps friction to a minimum and provides wiping action thus assuring long, stick-free consistent operation and making the spools relatively unaffected by air line contaminates.
MAC spools are of a balanced design; therefore they are not affected by back pressure or restrictions in the exhaust, permitting 3-ways to be plugged for 2-way operation and 4-ways to be plugged for 3-way or 2-way operation.
Further, the use of two seals, as illustrated, one for the exhaust and one for inlet, provides for a short stroke and high flow in a small envelope size.
All valves utilize one piece aluminum bodies. On almost all Series valves, the bodies are die cast. The die casting technique used provides large, smooth and direct flow paths for low pressure drop.

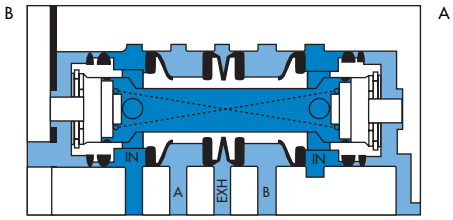


PILOT SYSTEM

On most pilot operated valves a large checked accumulator, housed in the main valve body, supplies both pilots on double solenoid valves as well as the air/spring return on single solenoid pilot or single remote air pilot valves. The checked accumulator assures positive, consistent shifting in both directions even with inlet pressure fluctuations and/or restrictions, and even at very low minimum pilot pressures. On internal pilot models the accumulator is supplied from the main valve inlet and protected from inlet pressure fluctuations by a check valve. The check valve is designed to bleed off the accumulator when the main supply pressure is removed. On external pilot models, the accumulator is supplied from an external pilot port. Pilot operation ensures maximum energization shifting force. An air spring ensures maximum deenergization shifting force.

3-POSITION CENTERING

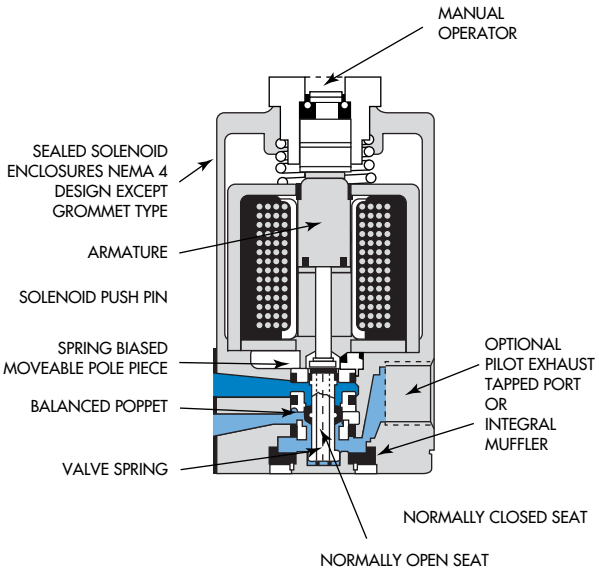
MAC 3-position solenoid and remote air pilot valves are centered by a patented spring centering device or patented combination spring and pressure assisted spool design which reduces side load potential and resultant wear, and assures fast, positive return of the main spool when the pilots are de-energized due to a high shifting force.



3 POS. CLOSED CENTER - CENTER POSITION

SOLENOID PILOT VALVES PME-XXYZZ

Most MAC valves in this catalog are pilot operated by a patented high flow, fast response Normally Closed Only version of the compact MAC 100 Series solenoid valve (shown below). Similarly on solenoid pilot 3-way valves, another version of the 100 or 200 series is used as the pilot. These patented burnout proof solenoid pilots provide extremely fast response times to an extent not equaled in other valves
Because air pressure does the work in shifting the main spool, minimal energy is consumed by the solenoid with no limitation in size of the main valve. On 120/60 AC service the inrush current is down to .12 Amps. On DC service wattages are available down to 1.0 Watts across almost the entire product line. (The 82 Series is piloted by a version of the 35 Series. On DC service, wattages are available down to 1.8 watts.). Intrinsically safe valves are available for most series listed in this catalog. This option is for DC service only at 0.6 Watts.



Consult "Precautions" page 364 before use, installation or service of MAC Valves

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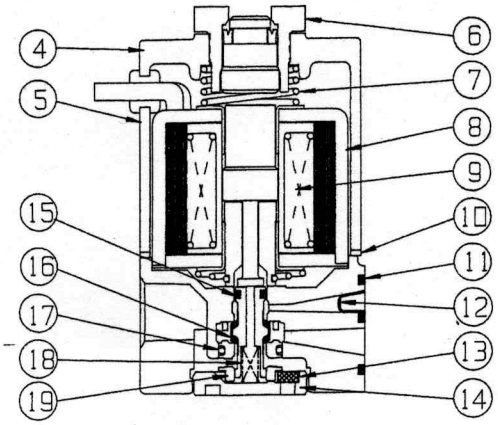
MAC VALVES PACIFIC, INC.

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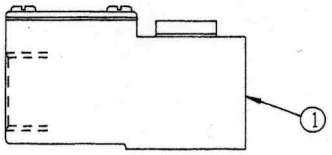
PME / PPE PILOT VALVE SERIES

APPLIES TO VALVES MANUFACTURED SINCE - DECEMBER 1990

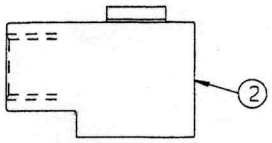
PME / PPE SOLENOID PILOT VALVE



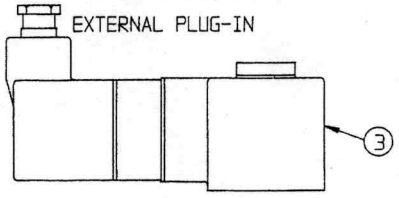
JIC ENCLOSURE



CONDUIT



EXTERNAL PLUG-IN



SEAL REPAIR KITS

K-PP001 - PPE Pilot
K-PM002 - PME Pilot
Not available for valves below 6 Watts.

* Items in Seal Repair Kits.

ITEM No.	PART NUMBER	DESCRIPTION	
1	E-01017-YAA1	COVER ASS'Y JIC ENCLOSURE (Incls.#6 & 10)	
2	E-01017-YRA1	COVER ASS'Y CONDUIT (Incls.#6 & 10)	3/8" NPS
	E-01017-YCA1		1/2" NPS
3	E-01017-YJA1	COVER ASS'Y EXTERNAL PLUG-IN	SQUARE
	E-01017-YJB1		RECTANGULAR
4	E-01017-YBA1	COVER ASS'Y GROMMET (Incls.#6 & 10)	
5	D1-XXAAC-YBA1	SOLENOID AND COVER ASS'Y COMPLETE (Incls. 1 thru 10) SEE SOLENOID AND COVER OPTIONS.	GROMMET
	D1-XXAAC-YAA1		JIC ENCLOSURE 1/2" CONDUIT
	D1-XXAAC-YCA1		1/2" CONDUIT
	D1-XXAAC-YRA1		3/8" CONDUIT
	D1-XXAGC-YJA1		SQUARE EXT. PLUG-IN
	D1-XXAGC-YJB1		RECTANGULAR EXT. PLUG-IN
	D1-XXAGC-YJC1		SQUARE EXT. PLUG-IN W/ LIGHT
	D1-XXAGC-YJD1		RECT. EXT. PLUG-IN W/ LIGHT

ITEM No.	PART NUMBER	DESCRIPTION	
6	E-01021-00	MANUAL OPERATOR ASSEMBLIES	NON-OPERATIVE
	E-01021-01		NON-LOCKING RECESSED
	E-01021-02		LOCKING RECESSED
	E-01021-03		NON-LOCKING EXTENDED
	E-01021-04		LOCKING EXTENDED
7	21159	LOAD SPRING	
8	D1-XXAA	SOLENOID ASS'Y (Incls.#9) SEE OPTIONS	
9	C1-XXAA	COIL SEE OPTIONS	
10	16234	GASKET	
11	*16337	PRESSURE SEAL (PILOT BODY TO MAIN VALVE)	
12	*28343	FILTER SCREEN	
13	*R-PM005	RETAINING PLUG-FILTER ASSY (PME ONLY)	
14	*30411	RETAINING PLUG (PPE ONLY)	
15	*17925-01	'O' RING POPPET SEAL	
16	*S-01002	POPPET ASSEMBLY (Incls #15)	
17	*17905-01	'O' RING RETAINER SEAL	
18	*21227	RETURN SPRING	
19	R-PM004/R-PP001	PME/PPE RETAINER ASS'Y W/PLUG (Incl 13,14,17)	

HOW TO ORDER SOLENOID AND COVER OPTIONS

PME - XX Y ZZ (Complete Pilot Valve)
D1 - XX AA C - Y ZZ (Solenoid & Cover Assenbly)
C1 - XX AA (Coil Only)

XX	AC VOLTAGE
11	120/60, 110/50
12	240/60, 220/50
22	24/50-60
39	240/50

XX	DC VOLTAGE
50	24 VDC (6W)
55	12 VDC (6W)
57	12 VDC (2.5W)①
59	24 VDC (2.5W)①
60	12 VDC (8.5W)
61	24 VDC (8.5W)

AA	LEADS
AA	18" Std. Length
AG	6" Ext. Plug-In
BE	6" w/ Plug-In Terminals (6000 Series)

Y	OPERATOR
0	No Operator
1	Non-Locking Recessed
2	Locking Recessed
3	Non-Locking Extended
4	Locking Extended

ZZ	ELECTRICAL CONNECTION
AA	JIC w/ 1/2" NPS Conduit
BA	Gronnet
CA	Conduit 1/2" NPS
DA	Int. Plug-In (6000 Series) or 800 Connon Conduit
NA	Conduit 1/2" w/ Ground
RA	Conduit 3/8" NPS
JA	Square Ext. Plug-In
JB	Rectangular Ext. Plug-In

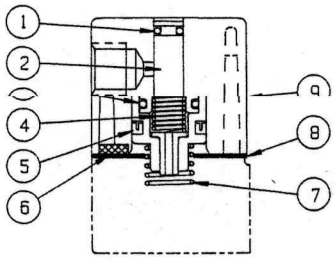
JC	Sq. Ext. Plug-In w/ Light
JD	Rect. Ext. Plug-In w/ Light

① Available on Complete Valves Only.

For other lead lengths & voltages consult factory.

PME / PPE REMOTE PILOT OPERATED PILOT VALVE

ITEM No.	PART NUMBER	DESCRIPTION
1	17006-01	"O" RING SEAL
2	N-01001	PISTON ASS'Y - Incl. #1 thru #5
4	21224	BIAS SPRING
5	16354	"U"-CUP PISTON SEAL
6	28149	FILTER ELEMENT
7	21225	RETURN SPRING
8	16234	GASKET
9	PDE-RAXX	RA PILOT SECTION ASS'Y Incl. #1 thru #8 (See RA Options)



* Items 11 thru 19 fron the Solenoid Pilot Valve are also used on the Remote Air Pilot Valve.

HOW TO ORDER PILOT VALVE OPTIONS

PME / PPE - RAXX

Operator		Pilot Port	
1	Non-Locking Recessed	1	1/8" NPT
		2	#10-32 UNF
		3	M5 x 0.8
		4	1/8" BSPP
		5	1/8" BSPT
		0	Plug-In (6000 Ser.)

PRECAUTION: IMPROPER APPLICATION USE, INSTALLATION OR SERVICE OF MAC VALVES COULD CREATE A DANGEROUS SITUATION - CONSULT "PRECAUTIONS" ON THE INSIDE OF THE BACK COVER OF CATALOG.

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