FOR CIRCUIT BAR® VERSION OF THIS SERIES, SEE SECTION E.

MAC 35 SERIES

BODY Patents and Patents Pending **OPTIONS**

RA1X - REMOTE PILOT AIR OPERATOR (SEE T-4)

VALVE FUNCTION/MANIFOLD TYPE

-3 WAY N.C. ONLY INLINE/STACKING

-N.C. STACKING UNIVERSAL POPPET

-N.O. STACKING UNIVERSAL POPPET

-N.C. MANIFOLD W/ REGULATOR SLOTTED STEM

-N.C. MANIFOLD W/ REGULATOR & ADJ-KNOB

-N.C. MANIFOLD W/ REGULATOR CASCADE TYPE

-N.C. MANIFOLD W/ REGULATOR LOCKING STEM

-N.O. MANIFOLD W/ REGULATOR LOCKING STEM

For regulator options & dimensions, see page C-28

-N.C. MANIFOLD W/ REGULATOR-ADJ/KNOB (CASCADE)

H -N.O. MANIFOLD W/ REGULATOR SLOTTED STEM

K — N.O. MANIFOLD W/ REGULATOR & ADJ-KNOB

-REGULATOR ONLY SLOTTED STEM

-REGULATOR ONLY W/ ADJ-KNOB

-REGULATOR ONLY W/LOCKING STEM

N - N.C. MANIFOLD CASCADE TYPE

35A - X X X - (DXXX - XXX) - SOLENOID OPTIONS

-NO MANIFOLD BASE

-N.C. MANIFOLD

-N.O. MANIFOLD

-UNIVERSAL 3-WAY INLINE

SEE BELOW

BODY TYPE

- -INLINE-
- -INDIVIDUAL INLINE
- #10-32 PORTS IN BACK
- MANIFOLD MOUNT PORTS

- -MANIFOLD VALVE

- -NO BODY BLANK STATION
- -STACKING BODY W/ **BOTTOM INLET**

PORT SIZE

- -MANIFOLD BODY ONLY OR REGULATOR ONLY
- -1/8" NPT
- #10-32 UNF (STACKING & MANIFOLD)
- C -1/8" BSPPL
- -M5 (METRIC) (STACKING & MANIFOLD) D
- -1/8" BSPTR

MANIFOLD WITH BOTTOM CYL. PORT

- -1/8" NPT
- -#10-32 UNF
- -1/8" BSPPL
- -M5 (METRIC)

2

-1/8" BSPTB

SOLENOID **OPTIONS**

XX X-X XX

Non-Locking Recessed

Locking Recessed

Locking Extended

w/Indicator Light

(Stacking MA Cover)

w/Light on MA Cover

w/Light on MA Cover

Non-Locking Extended w/Light on MA Cover

Locking Recessed

Locking Extended w/Light on MA Cover

Non-Locking Recessed

MANUAL OPERATOR

No Operator

Non-Locking

No Operator

Extended

- BA Grommet
- Grommet w/Diode Grommet w/M.O.V.
- Conduit 1/2" NPS tCA -
- †CM Metal conduit 1/2" NPS
- †CN Metal conduit w/grd. 1/2" NPS -EXTERNAL PLUG-IN VALVE-

ELECTRICAL CONNECTION

- FM Plug-in (For ECD & ECE Bar)

- FM Plug-in (FOT ECD & ECE Bar)
 FN Plug-in w/Diode (For ECD & ECE Bar)
 FP Plug-in w/M.O.V. (For ECD & ECE Bar)
 †JB Rectangular Plug-in (Inline Only)
 †JD Rectangular Plug-in w/Light (Inline Only)
 †JM Rectangular Male Only (Inline Only)

- FJM Rectangular Male Only (Inline Only
 KA Mini Plug-in
 KB Mini Plug-in w/Diode
 KC Mini Plug-in w/M.O.V.
 KD Mini Plug-in w/Light
 KE Mini Plug-in w/Light & Diode
 KF Mini Plug-in w/Light & M.O.V.
 KG Mini Plug-in w/Light & M.O.V.
 KG Mini Plug-in w/LED Light & Diode
 KJ Mini Plug-in Male Only
 KK Mini Plug-in Male Only w/Diode
 KL Mini Plug-in Male Only w/M.O.V.
- TA Dual Tabs (.110) w/Receptacles - Dual Tabs with Diode with Receptacles TB
- Dual Tabs with Light with Receptacles

Stacking Valves

- Dual Tabs with Light with Diode with Receptacles TE
- Dual Tabs (.110) Plain TI
- Dual Tabs with Diode without Receptacles TK -
- TM Dual Tabs with Light without Receptacles
 TN Dual Tabs with Light with Diode without Receptacles
- MA Common Conduit (Stacking)

-NO VALVE BODY

- -INDIV. INLINE W/2
- -INDIV. INLINE W/2
- MANIFOLD -
- (UNIVERSAL POPPET)
- -MANIFOLD VALVE (N.C. ONLY POPPET)
- -MAN, VALVE W/GAGE PORT (UNIVERSAL POPPET)
- -MAN. VALVE W/GAGE PORT (N.C. ONLY POPPET)

- STACKING -

COIL

AF

DF

FA

-STACKING BODY

AA 120/60, 110/50

AB 240/60, 220/50

AC 24/50-60

240/50

DA 24VDC(5.4w)

DB | 12VDC(5.4w)

DE 12VDC (12.7w)

FB 24VDC (1.8w)

24VDC (12.7w)

12VDC (1.8w)

12VDC (2.4w)

24VDC (2.4w)

LEAD LENGTH

Α	18" Leads	1
В	24" Leads	Į
С	36" Leads	Ī
D	48" Leads	Ī
Е	72" Leads	Ī
J	External Plug-In	

Other AC & DC Voltages & Wattages Available - Consult Factory

*NOTE: These wattages available as Mod. CLSF only

CV - FLOW

35 SERIES	INUNE	STACKING	MANIFOLD BASE	CIRCUIT BAR™
Low watt DC 1.8 - 2.4 watts	0.08	0.12	0.09	0.08
Std. watt DC 5.4 watts	0.15	0.16	0.10	0.09
All Std. Ac & Hi-flow DC 5.4 - 7.2 watts	0.17	0.17	0.14	0.14
Hi-flow DC 7.3 - 9.2 watts MOD 1125	0.21	0.21	0.17	0.16
Hi-flow DC 9.3 -24 watts & all AC	0.25	0.25	0.18	0.17

† Available on individual valves and Circuit Bars® only.

STACKING BODY **ACCESSORIES**

MANIFOLD END PLATE KIT -

For each gang, one kit is required.

ISOLATORS-Sections of a gang may be isolated permitting different pressures to be fed to either end of the gang, or to optional bottom inlet port.

END PLATE KITS

M-35001-01	1/4" NPTF
M-35001-01P	1/4" BSPPL

1/4" NPTF M-35002-01 M-35002-01P 1/4" BSPPL

Manifold Valves	
M-35003-01	1/4" NPTF
M-35003-01P	1/4" BSPPL

ISOLATORS - When using isolators with common conduit, M-45004 spacer is required between conduit boxes

N-35001	Inlet & Exhaust
N-35002	Inlet Only
N-35003	Exhaust Only
Manifold Valve	es es
N-35006	Inlet & Exhaust
N-35007	Inlet Only
N-35008	Exhaust Only

Certain MAC Valves are approved by U.L. & C.S.A. For details see Technical Section. Consult "Precautions" on inside back cover before use, installation or service of MAC Valves.

REMOTE AIR PILOT, PILOT OPERATED OPTIONS

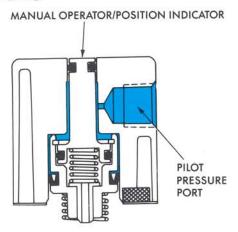
A 100 type remote air pilot, pilot operator (shown on the right) is available on all valves using the 100 Series solenoid (All series in this catalog except 200, 57, 58, 59, or 1300). Any 100 Series solenoid can be replaced with this air pilot operator. When utilizing this operator the air pilot signal can be a minimum of 20 psig regardless of main valve pressures. The air pilot signal pressure shifts only the pilot valve poppet while internal (main valve) or external pilot pressure shifts the main valve spool. A manual operator and pilot spool position indicator is standard.

TO ORDER: Substitute the voltage, manual operator and enclosure options given in the catalog under each series with RA1X, X equaling the desired pilot port thread options shown on the right examples, 55B-12-PI-RA11, 56C-12-RA11, 711C-11-PI-RA11, 811C-PM-RA11-52, 911B-PM-RA11.
On 6000Series (6200-6300-6500) for both

single and double operated models use the Remote Air Pilot Model numbers given in the catalog and add 1X (X equaling desired port thread) after the RA e.g. 6212C-131-PM-RA11, 6312D-131-PM-RA11 or 6512B-131-PM-RA11. To order a solenoid operated valve with air pilot return, use the standard double solenoid valve model numbers and add MOD 410A to replace the "A" solenoid with the remote air pilot, pilot operator or MOD 410B to replace the "B" solenoid.

	-	OPTIONS
	1	1/8" NPTF
*	2	#10-32 UNF
*	3	M5 x 0.8
	4	1/8" BSPP
	5	1/8" BSPT

^{*}Not available for the 35, 45 & 82 Series



A similar remote air pilot is available for the 35, 45 & 82 Series. Use same code for pilot port options.

Examples: 35A-AAA-RA11

45A-AA1-RA11

82A-AB-BAA-TM-RA11

PARTIAL LIST OF MODIFICATIONS

T4

MAC Valves is committed to designing and producing valves to our customers' specifications wherever practical and possible. Below is an abbreviated list of some of the more common modifications in general use. There are currently over 1,000 MOD numbers issued; if you do not find what you require in the list below, please consult the factory.

- Replace standard coil with a coil containing a spike suppressing diode. For D.C. voltages only (polarity sensitive).
- Replace standard coil with a coil containing a spike suppressing M.O.V. For both AC & DC voltages (not
 polarity sensitive).
- DRA1 Assemble single solenoid valves with a base or manifold wired to accomodate a double solenoid valve.
- **CLSF** Replace standard coil with a Class F rated coil.
- Assemble valve or base assembly with special length lead wire (xxx = lead length in inches).
- **T65C** For ambient temperatures up to 150° F (65° C). Includes CLSF coil.
- TSA1 Provide a terminal strip mounted on junction box cover plate.
- TSA2 As TSA1 but with the base leads prewired to terminal strip.
- 0158 Replace standard spring with heavy duty spring.
- 0233 Assemble valve with solenoid operator on B end of valve instead of A end.
- *300B Install Brad Harrison 3 pin connector.
- 0300 Install Brad Harrison 5 pin connector.
- 0389 Rotate solenoid cover or mechanical operator 180 degrees from standard position.
- 408B Install filter screen in port 3 instead of port 1. (35, 100 or 200 series)
- 416Y DIN connectors prewired with 6 feet of SJO-3 yellow cord.
- Replace standard spools and seals with viton spools and seals.
- 471L Coil wires to be 22 AWG.
- 0532 Valves supplied with solenoid cover(s) and corrosion resistant parts for wash down applications.
- 0575 Modify 55, 58 and 59 series for diverter application.
- 0650 Grease all valve parts with FDA approved grease.
- 736A 100 series modified for higher flow, high speed 2 Way applications.
- 0819 Extended meter in/out flow controls (45 series).
- 0850 Lubricate valve with Dow Corning no.4 grease.