

LARGE 4-WAY

Mac Valves with 4 or 5 ports; inlet, a common exhaust (4 way) or two exhausts (5 way) and two cylinder ports, one normally open and the other normally closed. Their common application is to operate double acting cylinders.

Patents and Patents Pending LARGE 4-WAY SOLENOID

82, 83, 92, 93, 800, 1300, 1800, 2700, 62-6600 SERIES (Cv from 1.2)













1300 SERIES **6300 SERIES** 6500 SERIES

AVAILABILITY TABLE

SERIES FEATURES	92	82	6200	6300	6500	6600	1300	ISO 1	ISO 2	ISO 3
SGL DBL SOL 2POSN								//////////////////////////////////////		

LEGEND:

 available on 6300 manifold only.
 available on 6300 manifold only with sandwich pressure regulator. --

PORTING - INDIVIDUAL BASES

/ = available X = not available

PORT SIZE	92	82	6200	6300	6500	6600	1300	1501	150 2	150 3
1/8"		-/	1.	1.				1.		
3/8"		₽″=	=/•=	=/•=	- /• -			=/•=	-/•-	
3/4"				_/_	=/•=	_ /• _	_ /• _		_ /• _	=/:-
]"						- / -	= /=			
1/2"							- / -			

LEGEND: / = side ports

• = bottom ports available (no side ports)

PORTING - MANIFOLD BASES

PORT SIZE	92	82	6200	6300	6500	6600	ISO 1	150 2
1/4" 3/8" 1/2"	/ :	_/•+ _ /• _	=/•=	/•	- /• -		/•+ /•+	-/•+
3/4" 1"					/•+	= /• =		-/•+

/ = side ports

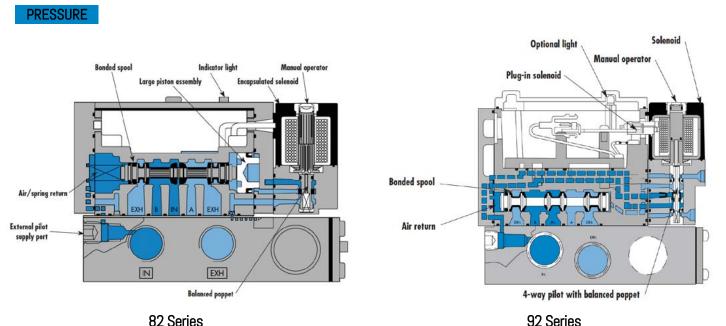
• = bottom cylinder ports + = bottom inlet (92 series - consult factory)

OPERATIONAL BENEFITS

- Unique patented MACSOLENOID for fastest possible response time with its non burnout feature on AC service. -
- Unique patented MACSOLENOID for fastest possible response times. -
- Balanced poppet pilot valve for high flow, precise repeatability and consistant operation.
- Balanced poppet 4 way pilot valve provides maximum shifting forces, precise repeatability and consistant operation.
- Large spool or piston for maximum shifting forces even at minimum operating pressure.
- Air only return. Optional memory spring is also available.
- Air/Spring return for consistant shifting on single solenoid valves.
- MAC spool and bore combination for wiping away contamination, eliminating sticking and for use on lubricated and non-lubricated service.
- Patented, virtually burnout proof AC solenoid.
- Optional low wattage DC solenoids down to 18W (82 series) or 10W (92, 6000, 1300 & ISO series).
- Plug-indesign of valves, bases, flow controls and regulators for modular assembly and ease of maintenance.
- Indicator lights in valve body, base or external plug-in connector.
- Plug-in solenoid and optional circuit board to allow for lights, diodes, MOV's and AC rectification
- Very high flow in a very compact package. -

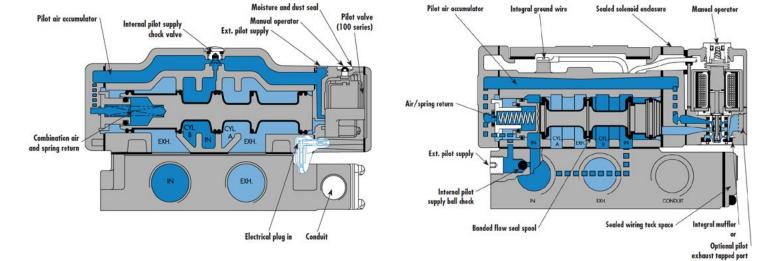
EXHAUST

- NEMA 4 solenoid enclosure (6000 & ISO series)
- A large checked accumulator for consistant shifting on single and double solenoid models (6300, 6500, 6600, 1300 & ISO 3)
- -Internal or external pilot operation: manifolds supplied with optional common external pilot.
- -Non-locking manual operators standard on all valves; other types of manual operators available.
- Add-on style circuit bar manifolds provide for additional stations to be added to existing manifold.





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6500 Series



The MAC 82 series is a versatile 4-way solenoid piloted spool valve. This features our balanced poppet in the pilot and an air/spring return for consistent shifting regardless of inlet pressure fluctuations. Our balanced spool means the valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open or can be used vacuum, diverter or selector applications. Our one piece bonded seal spool means longer life and easy maintenence. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 82A-AC-000-TM-DDAP-1DA

Function	Port size	Flow (Max)	Individual Mounting
4/2, 4/3	1/8"-1/4"-3/8"	1.35 Cv	Sub Base 'Plug-In'/'Non Plug-In'

OPERATIONAL BENEFITS

- Balanced spool, immune to variations of pressure.
- Short stroke with high flow.
- The piston (booster) provides maximum shifting forces.
- Powerful return force thanks to the combination of mechanical and air spring:
- Bonded spool with minimum friction, shifting in a glass-like finished bore.
- Wiping effect eliminates sticking.
- Pilot valve with balanced poppet, high flow, short and consistent response tin
- Long service life.

1 - Spool Type - Valve Function

A Single Solenoid - Single Pressure

B Double Solenoid - Single Pressure

C Single Solenoid - Dual Pressure

D Double Solenoid - Dual Pressure

Double Solenoid - 3-Position Closed Center

Double Solenoid - 3-Position Open Center

G Double Solenoid - 3-Position Pressure Center

0 Base or Manifold Only

82 SERIES VALVE & BASE OPTIONS

82A - X X - X X X -1 2 3 4 5 · XX - D XX X - X XX 6 7 8 9 10

	4/2 Single operator	
S.	4/2 Double operator	
mes.	Closed center	4/ Open c



Ε

F

Н

.1

K Single Solenoid - Dual Pressure With Solenoid On "B" End L Double Solenoid - 3-Position Dual Pressure - Open Center

M Double Solenoid - 3-Position Dual Pressure - Closed Center

Double Solenoid - 3-Position - Dual Pressure - Pressure Center

Single Solenoid - Single Pressure With Solenoid On "B" End

2 - Body Type/Lights In Body

- A Plug-in Body
 - B Non Plug-in Body
 - Internal Plug-in With Light In Body С
 - Single Light 120V Single Light 240V Single Light 24V Double Light 120V
 - Double Light 24V Double Light 240V

3 - Port Size And Thread Type

- Valve Only 0
- Е 1/4" BSPPL Ports
- F 3/8" BSPPL Ports
- 1/4" Dual Pressure BSPPL Ports (Individual Base Only) L
- M 3/8" Dual Pressure BSPPL Ports (Individual Base Only)

4 - Base/Manifold Configurations

- 0 Valve Only
- А Individual Base - Standard Porting
- 1/4" Bottom Ports R
- C 1/4" Both Bottom & Side Ports
- D Individual Side Inlet & Exhaust Bottom Cylinder Ports
- K Manifold Base Standard Ports
- Manifold With Bottom Cylinder Ports L
- M Manifold With Additional Bottom Inlet
- R Manifold Bottom Inlet & Bottom & End Cylinder Ports

5 - Internal/External Pilot

- 0 Internal Pilot Valve Only No Base
- A No Indicator Light
- B Single Indicator Light in Base or Manifold 110V 240V 24V
- Double Indicator Light in Base or Manifold С 110V 240V 24V
- External Pilot No Light D
- Individual Base Manifold E External Pilot - Single Light in Base or Manifold
- Individual Base 110V Individual Base 240V Individual Base 24V Manifold 110V Manifold 24V Manifold 240V
- F External Pilot Double Light in Base or Manifold Individual Base 110V Individual Base 240V
 - Individual Base 24V Manifold 110V
 - Manifold 240V Manifold 24V

6 - Pilot Body

- TM Pilot Valve with muffled exhaust
- TP Pilot Valve with piped exhaust
- TU Pilot Valve; pilot exhaust out main exhaust (Single Pressure Only)

7 - Voltage			82 Series Pilot Va	lves - Bodies and Assemblies	
AA 120/60, 110/50	AC 24/60, 24/5	0	ТМ	Pilot Body Asssembly Only	
AF 240/50	DA 24 VDC (54V	V)	TP	Pilot Body Assembly Only	
DB 12 VDC (54W)	DC 12 VDC (7.5)	W)	TU	Pilot Body Assembly Only	
DD 24 VDC (7.3W)	DE 12 VDC (12.	7W) (CLSF)	TM-DXXY-XXX*	Complete Pilot Valve	
DF 24 VDC (12.7W) (CLSF)	FE 12 VDC (24V	V)	TP-DXXY-XXX*	Complete Pilot Valve	
FF 24 VDC (24W)			TU-DXXY-XXX*	Complete Pilot Valve	
8 - Wire Length			TM-RAIX	Complete Remote Air Pilot Valve	
Plug-in Valve/Base	Non Plug-in Valve/	'Base	TP-RAIX	Complete Remote Air Pilot Valve	
P Plug-in 8" - Standard	A 18"	E 72″	TU-RAIX	Complete Remote Air Pilot Valve	
1 18" 4 48"	B 24″	F 96″	TO-RAIX	Remote Air Operator	
2 24" 5 72"	C 36″	J 6"*	DXXY-XXX*	Solenoid and Cover Assembly	
3 36" 6 96"	D 48"		Note: Low wattage	e available as complete valves only	
* Lead wire length for external plug-in c	onnectors must be	: "J"	82 Series Flow Control Module		
9 - Manual Operator			FC82A-AA	Plug-in Flow Control Assembly	
0 No Operator			FC82A-BA	Non Plug-in Flow Control Assembly	
1 Non-Locking Manual Operator			82 Series Accesso	pries	
2 Locking Manual Operator			N-82005-01	Manifold Fastening Kit	
3 Non-Locking Extended Manual Ope	rator		32835 3/8"	Isolation Plugs	
4 Locking Extended Manual Operator	r		M-82003	Blank Station Cover Plate (Manifold)	
10 - Electical Connector			M-82003-00-1	Blank Station Cover Plate when used with	
DA Plug-in	BA Grommet			regulator	
CA Conduit 1/2"	JB Rectangular	Plug-in			
JD Rectangular Plug-in with Light	JM Rectangular	Male Only			
KA Mini Plug-in	KB Mini Plug-in	with Diode			

KD Mini Plug-in with Light

KF Mini Plug-in w/light & M.O.V.

82 SERIES REMOTE AIR 82A-XX-XX-RA 12345

KC Mini Plug-in with M.O.V.

KE Mini Plug-in with Light & Diode

KG Mini Plug-in with LED Light & Diode

- 1 Spool Valve Function
 - 0 Base Only
 - A Single Operator Single Pressure
 - B Double Operator Single Pressure
 - E 3-Position Closed Centre
 - F 3-Position Open Centre
 - G 3-Position Single Pressure Pressure Centre
 - H 3-Position Dual Pressure, Pressure Centre

2 - Remote Air

B Remote Air Body

3 - Port Size And Thread Type

- 0 Valve Only No Base
- D 1/8" BSPPL
- E 1/4" BSPPL
- F 3/8" BSPPL

4 - Base Configurations

- 0 Valve Only No Base
- A Base with Standard Porting
- B Base with Bottom Ports Only (1/8" or 1/4")
- C Base with Side and Bottom Ports (1/8" or 1/4")
- D Base with Side Inlet and Exhaust and Bottom Cylinder Ports

5 - Single/Double Remote Air Base

- 0 Valve Only No Base
- A Single Remote Air Internal Pilot
- D Single Remote Air External Pilot or Double Remote Air

82 SERIES REGULATOR PR82A - X X X X X - X T T T T T T 1 2 3 4 5

1 - Adjustment Type

N	lanual	Adjust	With	Slotted	Stem

- A Plug-in Solenoid
- B Remote Air or Non Plug-in
- C Regulator Only
- Air Pilot Adjust (0-120 PSI Only)
- D Plug-in Solenoid
 - Single
 - Double
- E Remote Air or Non Plug-in Body Single Double
- F Regulator Only
- Manual Adjust With Locking Knob
- G Plug-in Solenoid
 - Single
 - Double
- H Remote Air or Non Plug-in Body
- Single
- Double
- J Regulator Only
- Manual Adjust With Locking Slotted Stem
- K Plug-in Solenoid Single Double
- L Remote Air or Non Plug-in Single Double
- M Regulator Only

2 - Configuration

- 0 Regulator Only
- A Regulator on "A" end (Standard)
- B Regulator on "B" end with by-pass on "A" end
- C Regulator on "A" end with by-pass on "B" end
- D Regulators on both ends
- S Selector to inlet of next valve (Dual Reg.)
- T Selector to inlet of next valve (Sgle. reg. w/by-pass on "A")
- 3 Gauges
- A No gauge port
 - B Gauge with face perpendicular to manual operator** Single & Double
 - C Gauge with face parallel to manual operator** Single & Double
- D Gauge port with pipe plug Single & Double

4 - Pressure Range

А

F

J

0-120 PSI

- В 0-80 PSI С 0-30 PSI D 0-120 PSI on "A" end 0-80 PSI on "B" end Е 0-120 PSI on "B" end 0-80 PSI on "A" end 0-120 PSI on "A" end 0-30 PSI on "B" end G 0-120 PSI on "B" end 0-30 PSI on "A" end Н 0-80 PSI on "A" end 0-30 PSI on "B" end 0-80 PSI on "B" end 0-30 PSI on "A" end 5 - Assembly Regulator block supplied with extra long screws to be used in 7 conjuction with flow control blocks
 - 8 Same as 7 except valve assembles to block
- Regulator block assembled to valve q

MAC 82 Series Regulator Accessories

*N-82013	Extra long screws for sandwich regulator mounted
	with flow control block.

Note: If option #7 or #8 are ordered in position #5,

this kit does not need to be ordered separately

Gauges

Gauge Assemblies N-82016-01 (0-120 PSI — "B" option) N-82016-02 (0-120 PSI — "C" option) N-82016-03 (0-80 PSI - "B" option) N-82016-04 (0-80 PSI - "C" option) N-82016-05 (0-30 PSI — "B" option) N-82016-06 (0-30 PSI — "C" option) Gauges Only 24143-030P 24143-100P 24143-160P Gauge Extensions 32602 (90°) 32603 (Straight) Note: Gauges called out in regulator must be ordered as separate line item @ N/C



The MAC 83 series is a 4-way balanced spool valve piloted by a small direct operated 4-way solenoid pilot - a one-off in air valve manufacturing. The 4-way pilot means a low minimum operating pressure - no pistons or springs - and minimal resistance to shifting. The balanced design in the pilot means shifting forces are consistantly high and response times are repeatable regardless of inlet pressure fluctuations. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

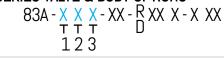
Stock Part Number: 83A-AAD-DM-DDAJ-1JD

Function	Port size	Flow (Max)	Pressure Range	Individual Mounting
4/2, 4/3	1/4" - 3/8"	1.5 Cv	Vac. to 120PSI	Sub Base 'Plug-In'/'Non Plug-In'

OPERATIONAL BENEFITS

- Balanced spool, immune to variations of pressure.
- Short stroke with high flow.
- The piston (booster) provides maximum shifting forces.
- Bonded spool with minimum friction, shifting in a glass-like finished bore.
- Wiping effect eliminates sticking.
- Pilot valve with balanced poppet, high flow, short and consistent response times.
- Long service life.

83 SERIES VALVE & BODY OPTIONS



1 - Spool Type

- 0 Base Only
- A Single Operator Single Pressure
- B Double Operator Single Pressure
- C Single Operator Dual Pressure
- D Double Operator Dual Pressure

6 - Lead Wire Length - Longer Options Available

- E 3 Position Closed Center
- F 3 Position Open Center
- G 3 Position Dual Pressure, Pressure Center
- M Single Operator Single Pressure w/ Memory Spring
- N Single Operator Dual Pressure w/ Memory Spring

83 SERIES: DM SOLENOID PILOT OPTIONS

JF 240/50

DA 24 VDC (54W)

FE 12 VDC (24W)

DE 12 VDC (12.7W)*

2 - Internal/External Pilot

- A Internal Pilot
- B Internal Pilot Dual Pressure (supply from #5 port)
- D External Pilot from #14 End
- E External Pilot from #12 End

3 - Port Size And Thread Type

- 0 Valve Only С 1/4" BSPPL
- D 3/8" BSPPL
- 4 Pilot Body
- DM Muffled Pilot Exhaust

8 - Electrical Connector

BL Grommet with M.O.V..

JM Rectangular male only

KB Mini plug-in w/ diode

KD Mini plug-in w/ light

DMB-DXXX-XXX-1 Pilot Valve

Complete Pilot Valve

JB Rectangular plug-in - No Light

Mini plug-in w/ light & M.O.V.

KG Mini plug-in w/ LED light & diode

BA Grommet

KF

TM Muffled Pilot Exhaust

- JD Rectangular plug-in w/light
- KE Mini plug-in w/light & diode

A 18" Coil leads J External plug-in lead

* MOD CLSF Only

5 - Voltage

JA 120/60, 110/50

JC 24/60, 24/50

DB 12 VDC (54W)

FF 24 VDC (24W)

DF 24 VDC (12.7W)*

7 - Manual Operator

- 0 No operator
- 2 Locking manual op.
- 4 Locking extended op.
- 1 Non-locking manual op.
- 3 Non-locking extended op.

MAC VALVES - LARGE - 4-WAY

- BK Grommet with diode
- - CA Conduit 1/2"

 - KA Mini plug-in
 - КC Mini plug-in w/ M.O.V.



83 SERIES

83 SERIES - SINGLE REMOTE AIR

83A - X X X - DM - RA1 X 1 2 3 4 5 6

1 - Spool Type

- 0 Base Only
- A Single Operator Single Pressure
- C Single Operator Dual Pressure
- M Single Operator Single Pressure with Memory Spring
- N Single Operator Dual Pressure with Memory Spring

2 - Internal/External Pilot

- A Internal Pilot
- B Internal Pilot Dual Pressure (supply from #5 port)
- D External Pilot from "14" End
- E External Pilot from "12" End

3 - Cylinder Port Size And Thread Type

- 0 Valve Only
- C 1/4" BSPPL
- D 3/8" BSPPL

4 - Pilot Body

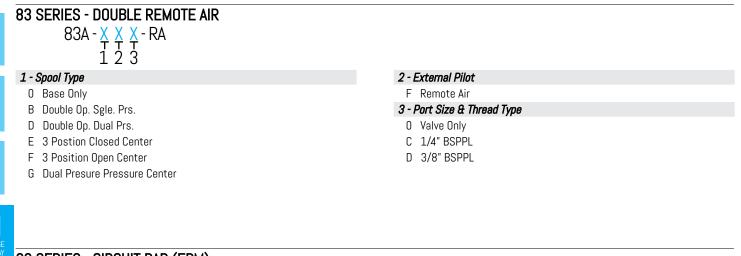
DM Muffled Exhaust

5 - Remote Pilot Operator

RA1 Pilot Operator

6 - Pilot Port Size and Thread Type

4 1/8" BSPPL



83 SERIES - CIRCUIT BAR (EBM)

EBM83A - XX X X X X - 9 1 2 3 4 5

1 - Spacing

00 254mm Spacing

2 - Configuration

- A Side Port
- B Bottom Port
- C Regulator w/Bottom Ports

3 - Style

- A Standard Bar Internal Pilot
- B Standard Bar External Pilot

4 - Port Size & Thread Type

- D 1/8" BSPPL
- E 1/4" BSPPL
- 5 Stations

Number of Stations (02, 03, 04, etc.)

Note: Regulators priced separately



The MAC 92 series is a 4-way spool valve pilot operated by a small direct operated 4-way solenoid valve - a one-off in air valve manufacturing. The 4-way pilot means a low minimum operating pressure - no pistons - and minimal resistance to shifting. The balanced design in the pilot means shifting forces are consistantly high and response times are repeatable regardless of inlet pressure fluctuations. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 92B-ABA-000-DM-DJCJ-2JD

Function	Port size	Flow (Max)	Pressure Range			l Mounting	6	
4/2, 4/3	1/8"-3/8"	1.2 Cv	Int.: 20-120PSI, 3 pos.: 35-12	20PSI	Sub Base	e 'Plug-In'/		
			Ext.: vac. to 120PSI, 3 pos.: 3	35-120PS	l 'Non Plug	g-ln'	•	
PERATIO	NAL BENEFITS							-
- The 4-\	way pilot devel	lops maximum sh	ifting forces both ways.					•
	y spring availal		Ç ,				the st	
	, , ,		of pressure, also provides high	flow				
	stroke with hig		er breeserst area brerides8				92 SE	
	-	th minimum frict	ion shifting in a				JZ JL	INILO
	like finished bo							
-			short and consistent		5/2 Single operator	5/2 Double operator	5/3 Closed center	5/3 Open center
		opper, mgn now,			13 2 4	12 2 4	12 24 14	12 2 4
respor	nse times.							置1//
					315	415	315	315
22 GEDI		BASE OPTIONS	2					
	928 - <u>X</u> X <u>X</u>	<u> X X X - XX</u> -	D <u>XX</u> X - X XX					
		34567	- + + + + + + + + + + + + + + + + + + +					
	1 Z 3	4567	8 9 10 11					
1 - Spool T	Type - Valve Fund	ction		5 - Ba	se/Manifold Co	onfigurations		
0 Base				0 B	asic Valve Only	/		
	e Solenoid - Sing	gle Pressure			; ide Ports (Indiv			
	le Solenoid - Sin					nly (1/8" only) (In	dividual Base)	
	e Solenoid - Dua	-				Ports (1/8" only)	,	
-	le Solenoid - Dua					aust, Bottom Cyl		
		Position Closed Cer	tro		(1/8" only) (Ind			
		Position Open Centr				Manifold Base)		
		osition Pressure Ce					Ontiona	
						Pilot - Base Light	υμιστισ	
		on Dual Pres., Pres.			Basic Valve Only			
		on Dual Pres., Clos				lo Light In Base		
		Position Open Centr				Single Light In Bas		
		gle Pressure w/Mer			.10 Volt	240 Volt	24 Volt	
-		al Pressure w/Mem	ory Spring)ouble Light In Ba		
-	n/Non Plug-In - Pl	Pilot Exhaust			.10 Volt	240 Volt	24 Volt	
0 Base						No Light In Base		
A Plug-	In Standard Exha	aust		ΕE	xternal Pilot -	Single Light In Ba	se	
B Non F	Plug-In Standard	Exhaust		1	.10 Volt	240 Volt	24 Volt	
C Plug-	In w/Pilot Exst.	to Main Exst. (DU	Pilot Only)	FΕ	xternal Pilot D	ouble Light In Bas	e	
		Exst. to Main Exst.		1	.20 Volt	240 Volt	24 Volt	
3 - Body 0	-				Ion Plug-In Inte	rnal Pilot		
0 Base	-				Ion Plug-In Ext			
	ght in Top				ot Body Exhaus			
	in Top					muffled exhaust		
110	-	240V AC 24V A		DN		piped exhaust		
12VE						ot exhaust out ma	ain avhaust	
	ize And Thread T			DU	ι ποι ναινε, μπ	οι σλησυδι υυι ΠΙ		
	c Valve Only	E 1/4" BSPP						
D 1/8"E	DOPPL	F 3/8" BSPP	L					

SMALL 4-WAY

RGE WAY

> ISO (ALVES) PPC (ALVES)

PULSE /ALVES

92 SERIES VALVE & BASE OPTIONS 92B - X X X - X X - X X - D X X - X X 1 2 3 4 5 6 7 8 9 10 11

8 - Voltage

JA* 120/60, 110/50	JC 24/60, 24/50
JF* 240/50	DA 24 VDC (54W)
DB 12 VDC (54W)	FA 12 VDC (1.8W)
FB 24 VDC (1.8W)	FE 12 VDC (24w)
FF 24 VDC (24W)	

* Must use electrical connection with ground wire

9 - Lead Wire Length

- P Plug-in 8"Standard
- 1 18" Base Leads
- 0 No Wires
- A 18" Coil Leads
- J External Plug-In Lead

10 - Manual Operator

- 0 No Operator
- 1 Non-Locking Manual Operator
- 2 Locking Manual Operator
- 3 Non-Locking Extended Manual Operator
- 4 Locking Extended Manual Operator

11 - Electrical Connector

- DG Plug-In w/Ground
- Plug-In w/M.O.V. & Ground DJ
- DN Plug-In w/Diode
- BK Grommet w/Diode
- JB Rectangular Plug-In - No Light
- JM Rectangular Male Only
- KB Mini Plug-In w/Diode
- KD Mini Plug-In w/Light
- KF Mini Plug-In w/Light & M.O.V.
- KG Mini Plug-In w/LED Light & Diode

- Plug-In w/Diode & Ground DH
- Plug-In DM
- Grommet Flying Lead ΒA
- JD Rectangular Plug-In w/Light
- KA Mini Plug-In
- КС Mini Plug-In w/M.O.V.
- KE Mini Plug-In w/Light & Diode

ISO VALVE

OPTIONAL ACCESSORIES

L					
Y -	Flow Control Modul	e	Manifold Accesories		
	FC92B-AA	Plug-in Flow Control Assembly - Single Sol.	M-92004-01-01P	(BSPPL) Manifold End Plate Kit	
	FC92B-BA	Plug-in Flow Control Assembly - Double Sol.		Internal Pilot	
	FC92B-CA	Non Plug-in Flow Control Assembly	M-92004-02-01P	(BSPPL) Manifold End Plate Kit	
GE /AY	Modifications			External Pilot	
	416G	2 1/2 Ft. Prewired Cord (For Mini Connector)	M-92002	Blank Station Cover Plate Kit	
	416K	6 Ft Prewired Cord (For Mini Connector)	M-92002-01	Blank Station Cover Plate Kit Sgl	
	416L	10 Ft Prewired Cord (For Mini Connector)		Pressure Inlet to "B" Port	
S	Pilot Valves - Bodies and Assemblies		M-92002-02	Blank Station Cover Plate Kit Dual	
	DMB-A1	4-Way Pilot Body (Muffl ed Exhaust)		Pressure Inlet to "A" & "B" Ports	
n	DPB-A1	4-Way Pilot body (Piped Exhaust)	N-92018	Inlet and Exhaust Isolater Disc	
1	DUB-A1	4-Way Pilot body (Pilot Exhaust to main Exhaust)	Note: Low wattage available as complete valves only		
s	DMB-DXXX-XXX1	Complete Pilot Valve (4-Way)			
	DPB-DXXX-XXX1	Complete Pilot Valve (4-Way)			
;	DUB-DXXX-XXX1	Complete Pilot Valve (4-Way)			
Ē	DMB-RA11	Complete Remote Air Pilot Valve (4-Way)			

RDM001-01

Remote Air Operator (used w/ 4-Way Body)

92 SERIES - REGULATOR

PR92C - X X X X - X 1 2 3 4 5

1 - Adjustment Type

Manual adjust with slotted stem

- A Plug-In Single Solenoid
- C Non Plug-In
- Air pilot adjust (0-120 PSI only)
- E Plug-In Single Solenoid
- G Non Plug-In
- Manual adjust with locking knob
- J Plug-In Single Solenoid
- L Non Plug-In
- Manual adjust with locking slotted stem
- N Plug-In Single Solenoid
- R Non Plug-In

2 - Configuration

- 0 Regulator Only
- A Regulator "A" End
- B Regulator "B" End
- C Regulator "A" End With By-Pass On "B" End
- D Regulator "B" End With By-Pass On "A" End
- E Regulators Both Ends
- P Select To "A" Port Regulator "A" End With By-Pass On "B" End
- R Select To "B" Port Regulator "B" End With By-Pass On "A" End
- S Select To "A" Port Regulators Both Ends
- T Select To "B" Port Regulators Both Ends

3 - Gauges

- A Gauge Port (Plugged)
- B Gauge With face Perp. To Manual Operator
- C Gauge With Face Parallel to Manual Operator

Note: Gauges ordered in regulator must be called out as separate line item at N/C

1 2 3 4

92 SERIES - CIRCUIT BAR CBM092B - XX X X X X - XX

1 - Spacing

- 01 25mm Spacing
- 03* 30mm Spacing (required Spacing for Terminal Strip
- with or without Light)

2 - Configuration

- A Side Cylinder Port
- B Bottom Cylinder Ports

3 - Style

- A Standard Bar
- B Add-on Style Bar (Includes End Plate)
- C Add-a-Unit Station 25mm-Single Station
- 30mm-Single Station

4 - Port Size & Thread Type

- B 1/8" BSPPL
- E 1/4" BSPPL
- H 3/8" BSPPL

- B Plug-In Double Solenoid
- D Regulator Only
- F Plug-In Double Solenoid
- H Regulator Only
- K Plug-In Double Solenoid M Regulator Only

Valves and cover plates assembled to valve

6

- _ _. . _ .. _ .
- P Plug-In Double SolenoidS Regulator Only

4 - Pressure Range

- A 0-120 PSI
- B 0-80 PSI
- C 0-30 PSI
- D 0-120 PSI On "A" End 0-80 PSI On "B" End
- E 0-120 PSI On "B" End 0-80 PSI On "A" End
- F 0-120 PSI On "A" End 0-30 PSI On "B" End
- G 0-120 PSI On "B" End 0-30 PSI On "A" End
- H 0-80 PSI On "A" End 0-30 PSI On "B" End
- J 0-80 PSI On "B" End 0-30 PSI On "A" End

5 - Assembly

9 Regulator Block Assembled To Valve

Gauge assemblies

N-92006-01	(23mm Gauge w/90º Fitting) 0-160
	PSI Perpendicular
24177-160	(23mm Gauge - No Fitting) 0- 160
	PSI Parallel
N-92006-02	(23mm Gauge w/90º Fitting) 0-100
	PSI Perpendicular
24177-100	(23mm Gauge - No Fitting) 0-100
	PSI Parallel
N-92006-03	(23mm Gauge w/90º Fitting) 0-60
	PSI Perpendicular
24177-60	(23mm Gauge - No Fitting) 0-60
	PSI Parallel
N-92004-01	(15mm Gauge w/90º Fitting)
N-92004-02	(15mm Gauge w/Straight Fitting)
24165-150	(15mm Gauge - No Fitting)

5 - Terminal Strip/I	Lights
AA Standard w/	Light (120 V)
AB Standard w/	Light (240 V)
AD Standard w/	Light (24 V)
6 - Stations	
Number of Statio	ns (01, 02, 03, etc.)
Accessories	
M-92001-01P	Right Hand End Plate Kit
28413	Isolator Disc (Inlet/Exhaust)
M-92002	Blank Station Cover Plate
M-92002-01	Blank Station Cover Plate

102-01	Blank Station Cov
	Single Pressure
	Inlet to Cylinder B

M-92002-02 Blank Station Cover Plate Dual Pressure Inlet to Cylinder A, Inlet to Cylinder B LARGE 3-WAY

PPC



The MAC 93 series is a 4-way spool valve pilot operated by a small direct operated 4-way solenoid valve - a one-off in air valve manufacturing. The 4-way pilot means a low minimum operating pressure - no pistons - and minimal resistance to shifting. The balanced design in the pilot means shifting forces are consistantly high and response times are repeatable regardless of inlet pressure fluctuations. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 93A-AAB-000-DM-DDAP-1DG

Function	Port size	Flow (Max)	Pressure Range	Individual Mounti	ng			I
5/2, 5/3	3/8" - 1/2"	3.8 Cv	Int.: 20-120PSI	Inline				
			Ext.: Vac. to 120PSI					
OPERATION	NAL BENEFITS							
- Unique	patented Mac:	solenoid® for f	astest possible response					•
times a	nd virtually bu	rn-out proof so	lenoid operation.					
- Balance	ed poppet 4-wa	ay pilot valve pi	rovides maximum shifting					
forces,	precise repeat	ability and con	sistent operation.				93 SE	RIES
- Air only	return. Option	al memory spri	ng is also available.					
- Optiona	al low wattage	DC solenoid do	own to 1 watt.		5/2	5/2	5/3	5/3
- MAC sp	ool and bore c	ombination wip	es away contamination,	Si	ingle operator	Double operator	Closed center	Open center
			se on non-lube service.			<u> <u> </u></u>		
	0				315	315	315	315

93 SERIES - VALVE OPTIONS

93A - X X X - X X X - X - D X X X - X X 1 2 3 4 5 6 7 8 9 10 11

- 1 Spool Type Valve Function
- 0 Base Only
- A Single Solenoid Single Pressure
- B Double Solenoid Single Pressure
- C Single Solenoid Dual Pressure
- D Double Solenoid Dual Pressure
- E Double Solenoid 3 Position Closed Center
- F` Double Solenoid 3 Position Open Center
- H Double Solenoid 3 Position Dual Pres., Pres. Center
- L Single Solenoid Single Pressure w/ Memory Spring
- K Double Solenoid 3 Position Dual Pres. Open Center
- J Double Solenoid 3 Position Dual Pres. Closed Center

220/240V AC

24V DC

24V AC

- N Single Solenoid Dual Pressure w/ Memory Spring
- R Universal Spool, Single Solenoid
- S Universal Spool, Double Solenoid

2 - Plug-In/Non Plug-In - Pilot Exhaust

- 0 Base Only
 - A Plug-In Standard Exhaust
 - B Non Plug-In Standard Exhaust

J Inline Body 3 - Body Options

- 0 Base Only/Inline
- A No Light in Top
- B Light in Top
- 110V AC 12V DC
- 4 Port Size And Thread Type
- 0 Basic Valve Only
- E 3/8" BSPPL
- F 1/2" BSPPL

5 - Base/Manifold Configurations

- 0 Basic Valve Only/Inline
- A Side Ports (Individual Base)
- B Bottom Ports Only (3/8" only) (Indiv. Base)
- C Side & Bottom Ports (3/8" only) (Indiv. Base)
- D Side Inlet & Exhaust, Bottom Cylinder Ports (3/8" only) (Individual Base)
- J Side Cyl. Ports (Manifold Base)
- K Bottom Cyl. Ports (Manifold Base)
- 6 Internal/External Pilot Base Light Options
 - 0 Basic Valve Only
 - A Internal Pilot No Light In Base
 - B Internal Pilot Single Light In Base
 - C Internal Pilot Double Light In Base
 - D External Pilot No Light In Base
 - E External Pilot Single Light In Base
 - F External Pilot Double Light In Base
 - G Non Plug-In Internal Pilot
 - H Non Plug-In External Pilot
- J Internal Pilot (Inline Valve)
- K External Pilot (Inline Valve)

7 - Pilot Body Exhaust Options

- DM Pilot Valve w/muffled exhaust
- DP Pilot Valve w/piped exhaust
- DU Pilot Valve w/exhaust to main exhaust

Continued Next page

93 SERIES - BASE OPTIONS 93A - X X X - X X X - X X - D X X X - X X 1 2 3 4 5 6 7 8 9 10 11

8 - Voltage

- JA* 120/60, 110/50
- JC 24/60, 24/50
- JF* 240/50
- DA 24 VDC (54W)
- DB 12 VDC (54W)
- DE 12 VDC (12.7W) (CLSF)
- DF 24 VDC (12.7W) (CLSF)
- FE 12 VDC (24w)
- FF 24 VDC (24W)
- * Must use electrical connection with ground wire

9 - Lead Wire Length

- P Plug-in 8"Standard
- 1 18" Base Leads
- 0 No Wires
- A 18" Coil Leads
- J External Plug-In Lead (use with "J" or "K" type electrical connector)

10 - Manual Operator

- 0 No Operator
- 1 Non-Locking Manual Operator
- 2 Locking Manual Operator
- 3 Non-Locking Extended Manual Operator
- 4 Locking Extended Manual Operator

11 - Electrical Connector

- JB Rectangular Plug-In
- BA Grommet
- DG Plug-In w/ Ground
- JD Rectangular Plug-In w/Light
- JM Rectangular Male Only
- JA Square Plug-In
- JC Square Plug-In with light
- JJ Square Male 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/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.
- Note: Further Voltage & Plug-In options available

Flow Control Module

FC93A-AA	Plug-in Flow Control w/ Screwdriver slot			
FC93A-AB	Plug-in Flow Control w/ Locking Knob			
FC93A-BA	Non Plug-in Flow Control w/ Screwdriver slot			
FC93A-BB	Non Plug-in Flow Control w/ Locking Knob			
Note: If flow co	ontrol module is to be installed between valve and base at			
the factory, add -9 after the flow control module number.				
For example: F	C93A-AA-9			

Pilot Valves - Bodies and Assemblies

DMB-A1	4-Way Pilot Body (Muffled Exhaust)
DPB-A1	4-Way Pilot body (Piped Exhaust)

Manifold Accesories

M-93001-01-01P	(BSPPL) Manifold End Plate Kit Internal Pilot
M-93001-02-01P	(BSPPL) Manifold End Plate Kit External Pilot
M-93002	Blank Station Cover Plate Kit
M-93002-01	Blank Station Cover Plate Kit - Inlet to Cyl B
M-93002-02	Blank Station Cover Plate Kit - Inlet to Cyl A & B
N-93008	Isolator Disc For Inlet and/or Exhausts

SMALL 4-WAY

LARGE 4-WAY



The MAC 800 series is a versatile 4-way solenoid piloted spool valve. This series features our balanced poppet in the pilot and an air/spring return for consistant shifting regardless of inlet pressure fluctuations. Versatility in piping means the valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open or can be used for vacuum, diverter or selector applications. Our one piece bonded seal spool means longer life and easy maintenence.

For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 811C-PM-111JD-155

		w (Max) 🛛 F	Pressure Range	Individual Mounting	
5/2, 5/3	1/4" 14	Cv I	nt.: sgle. op. & 3 pos.: 20-1	L50PSI, Inline	1 mar
		-	dble. op.: 10-150PSI		
		Ł	Ext.: vac. to 200PSI		
	INAL BENEFITS			5/2 5/2	
	ced spool, immun		is of pressure.	Single operator Double operator	
	stroke with high		num shifting forces.		
	ful return force t			5 \$ \$ \$	800 SERIES
	anical and air spr			5/3 5/3 osed center P	5/3 ressure center
	d spool with mini	0		A BA B	2 3 A
	like finished bore				
-	g effect eliminate			415 415	415
		-	gh flow, short and consiste	ent response times.	
	ervice life.			·	
Ŭ					
800 SEF					
			V V V		
	8 <mark>X X</mark> C - <u>XX</u> - 1 2 3	<u>XX X XX</u> -	<u>X X X</u>		
	12 3	456	789		
1 - Operat		100	,	6 - Enclosure	
-	le Solenoid			BA Grommet	JB Rectangle - No Light
-	le Solenoid			CA Conduit 1/2" NPS	JC Square With Light
2 - Pilot A				JA Square - No Light	JD Rectangle With Light
	nal Pilot - 2 Positio	on		7 - Spool Configurations	
2 Exter	rnal Pilot - 2 Positi	ion		1 Single Pressure Positi	on
5 Interi	nal Pilot - 3 Positio	on		2 Dual Pressure 2 Positi	on
6 Exter	rnal Pilot - 3 Positi	ion		5 Single Pressure 3 Pos	ition Closed Centre
3 - Pilot E	xhaust			6 Single Pressure 3 Pos	ition Open Centre
	ot Exh. Muffled	F	PP Pllot Exh. Piped	7 Dual Pressure 3 Positi	ion Pressure Centre*
				8 Single Pressure 3 Pos	
PM Pilo 4 - Voltag				* - Not available on models	with integral flow controls.
PM Pilo 4 - Voltago AC Voltago			22 24/50-60	8 - Body Configurations	
PM Pilo 4 - Voltago AC Voltago 11 120	0/60, 110/50				
PM Pilo 4 - Voltag <i>AC Voltag</i> 11 120 39 240)/50			1 Individual Stacking Bo	
PM Pilo 4 - Voltago AC Voltago 11 120 39 240 DC Voltago)/50 re			2 Stacking Body, 3 Com	dy, External Pilot mon Ports (inlet & Exhausts)
PM Pilot 4 - Voltage Voltage AC Voltage 11 120 39 240 DC Voltage DC Voltage 50 24V)/50 ve /DC (6W)	Ę	5 12VDC (6W)	2 Stacking Body, 3 Com 9 Port Size	
PM Pilo 4 - Voltage 4 AC Voltage 1 120 240 DC Voltage 50 50 24V 57 12V	0/50 re /DC (6W) /DC (2.5W)	Ę	9 24VDC (2.5W)	2 Stacking Body, 3 Com 9 Port Size 5 1/4" BSPP	mon Ports (inlet & Exhausts)
PM Pilo 4 - Voltage AC Voltage 11 120 39 240 DC Voltage 50 244V 57 124 60 124	0/50 re /DC (6W) /DC (2.5W) /DC (8.5W)	Ę	9 24VDC (2.5W) 1 24VDC (8.5W)	2 Stacking Body, 3 Com 9 Port Size 5 1/4" BSPP 6 3/8" BSPP (Stacking v	mon Ports (inlet & Exhausts)
PM Pilo 4 - Voltage 1 AC Voltage 1 11 120 39 240 DC Voltage 5 50 24V 57 12V 60 12V Other AC & 6	0/50 re /DC (6W) /DC (2.5W) /DC (8.5W) & DC Voltages avai	Ę	9 24VDC (2.5W)	 Stacking Body, 3 Com Port Size 1/4" BSPP 3/8" BSPP (Stacking v 	mon Ports (inlet & Exhausts)
PM Pilo 4 - Voltage 1 AC Voltage 1 11 120 39 240 DC Voltage 2 50 240 57 120 60 120 Other KC S 5	D/50 re /DC (6W) /DC (2.5W) /DC (8.5W) & DC Voltages avai nl Operators	t t ilable. DC watt	9 24VDC (2.5W) 1 24VDC (8.5W) ages from 1.0 to 17 watts.	 2 Stacking Body, 3 Comil 9 Port Size 5 1/4" BSPP 6 3/8" BSPP (Stacking v 9 Port Size 5 1/4" BSPP 	mon Ports (inlet & Exhausts)
PM Pild 4 - Voltage AC Voltage 11 120 39 240 DC Voltage 50 24V 57 12V 60 12V 0ther AC 8 5 - Manua 0 No 0	D/50 re /DC (6W) /DC (2.5W) /DC (2.5W) Æ DC Voltages avai al Operators perator	t t ilable. DC watt 1	9 24VDC (2.5W) 1 24VDC (8.5W) ages from 1.0 to 17 watts.	 Stacking Body, 3 Com Port Size 1/4" BSPP 3/8" BSPP (Stacking v 	mon Ports (inlet & Exhausts)
PM Pilc 4 - Voltage 11 120 39 240 <i>DC Voltage</i> 50 24V 57 12V 60 12V Other AC 8 5 - Manua 0 No 01 2 Locki	D/50 re /DC (6W) /DC (2.5W) /DC (8.5W) & DC Voltages avai nl Operators	t t ilable. DC watt 1	9 24VDC (2.5W) 1 24VDC (8.5W) ages from 1.0 to 17 watts.	 2 Stacking Body, 3 Comil 9 Port Size 5 1/4" BSPP 6 3/8" BSPP (Stacking v 9 Port Size 5 1/4" BSPP 	mon Ports (inlet & Exhausts)

LARGE 3-WAY SMALL 4-WAY

ISO VALVES

PPC VALVE

PULSI

ISOLATORS - Sections of a gang may be isolated permitting different pressures to be fed to either end of the gang. Part# N-08001 (inlet), N-08002 (exhaust).

ACCESSORIES - MANIFOLD END PLATE KITS (BSPP)

Internal Pilot Part No.	External Pilot Part No.	Models Used With
M-08001-01-01P	M-08001-02-01P	3 com. port or 1 com. port models, stacks of 1 thru 16 valves.
M-08002-01-01P	M-08002-02-01P	Com. conduit models, stacks of 1 thru 16 valves.
M-00005-01-01P	M-00005-02-01P	3 com. port or 1 com. port models, stacks of 17 or more valves.
M-00007-01-01P	M-00007-02-01P	Com. conduit models, stacks of 17 more valves.

MODIFICATIONS Мо

Mod. No.	Description	Model Availability
0358 Example: 811C-PM	3/8" inlet and cylinder ports 1-111DA-155 MOD 0358	Individual Valves

800 SERIES - CIRCUIT BAR (EBM)



1 - Spacing

00 31mm Spacing (Std.)

2 - Configuration

- 1 Standard Common Inlet & Exhaust
- 2 Standard with Flow Controls

3 - Port Size & Thread Type

B 3/8" BSPPL

ļ	-	Sta	τιο	ns	5	
					~	~

Number of Stations (02, 03, 04, etc.)

Accessories Blanking Plate — M-08008 Flow Control Assembly - N-08006

800 SERIES - CIRCUIT BAR (EBI)

1



9 Valves and cover plates assembled to valve

тт 23 4

1 - Spacing

00 31mm Spacing

2 - Configuration

- 1 Valve Mount
- 3 Port Size & Thread Type
 - B 3/8" BSPPL

4 - Stations

Number of Stations (02, 03, 04, etc.) Accessories

M-08011 Blank Station Cover Plate



The MAC 1300 series is a versatile 4-way solenoid piloted spool valve spool valve. This series features our balanced poppet in the pilot and an air/spring return for consistant shifting regardless of inlet pressure fluctuations. Versatility in piping means the valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open or can be used for vacuum, diverter or selector applications. Our one piece bonded seal spool means longer life and easy maintenence. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 1303G-111D-3

Function Port size 4/2, 4/3 3/4"-1"-1 1/4"-1 1/2"	Flow (Max) 15.9 Cv	Pressure Range Int.: sgle. op. & 3 pos.: 25-150PSI,	Individual Mounting Individual Sub Base	ALLER
		dble. op.: 10-150PSI, Ext.: vac. to 150PSI	Plug-in	
OPERATIONAL BENEFITS				
 Balanced spool, immune to v Short stroke with high flow. 	anations of pres	SSUIP.	4/2	
- High shifting forces.			Single operator	1300 SERIES
- Checked accumulator guarar	ntees maximum	pilot pressure.		1000 021120
		tion of mechanical and air springs.		
- Bonded spool with minimum		; in a glass-like finished bore.	4/2 Double operator	4/3 4/3 Closed center Open center
- Wiping effect eliminates stic	•			
- Pilot valve with balanced pop	opet, high flow, s	short and consistent response times		
1300 SERIES				
13 <u>×</u> ×G- <u>××</u> -×D 1 2 3 4	- <mark>X X</mark> T T			
1 - Port Size	0.0	4 - Manua	al Operators	
0 Valve Only - No Base		0 No 0		
2 3/4" Base		1 Non-	Locking Recessed	
3 1" Base			ing Recessed	
5 11/4" Base			Locking Extended	
6 11/2" Base			ing Extended	
2 - Operator			# Pipe Thread mal Pilot BSPP	
1 Single Solenoid 3 Double Solenoid			rnal Pilot BSPP	
7 3 Position Closed Centre		6 - Indica		
8 3 Position Open Centre		5 With	-	
3 - Voltage			5	
AC Voltage		BASES OF	VLY:	
11 120/60, 110/50 22	24/50-60	10952-	00-05P 3/4"BSP Single S	Solenoid
39 240/50			MOD-005 1"BSP	
DC Voltage		10954-	00-05P 1/4"BSP	
	12VDC (6W)			
· · · ·	24VDC (8.5W)	- 17		
Other AC & DC voltages available. response times.	UL WATTAGES UP T	0 17 WATTS TOF TASTER		

LARGE 3-WA

SMALL 4-WAY

LARC 4-W



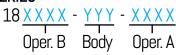
The MAC 1800 series is a versatile 4-way mechanical valve. This series features a wide variety of manual operator options, from levers and push-buttons to cams and remote air operated versions. Versatility in piping means the valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open or can be used for vacuum, diverter or selector applications. Our one piece bonded seal spool means longer life and easy maintenence. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 1800001-115-0003

Function Port size Flow (· · ·	Individual Mounting	A TT TT THE	Ť
<u>5/2 1/4" 14 Cv</u>	Vac. to 200PSI	Inline		
OPERATIONAL BENEFITS - Short stroke with high flo	<i>N</i> .		Double operator	
 Powerful return force. Bonded spool with minimum 	Im friction, shifting in a gla	ass-like finished bore.		Lever parallel to body
- Wiping effect eliminates	sticking.		5 \$ \$ \$ 4	1800 SERIES

- Wiping effect eliminates sticking.
- Long service life.

1800 SERIES



Mechanical Operator A & B

- 0001 Spring (Use 02 on Push/Pull) Retainer (Used with 0034, 0035, & 0039)
- 0002
- 0003 Pilot (2-Pos.) 0004 **Pilot Sequence**
- 0006 Spring retainer end mount
- 0010 Side pilot (2-Pos.)
- Side pilot w/Manual operator & Indicator (2-Pos.) 0011
- Side pilot sequence 0012
- 0013 Lever cam perpendicular to ports 2 & 3
- 0014 Lever cam parallel to ports 2 & 3
- 0021 Lever locking push perpendicular to body
- 0022 Lever non-locking push perpendicular to body
- 0023 Lever locking pull perpendicular to body
- 0024 Lever non-locking pull perpendicular to body
- 0025 Lever locking push parallel to body
- 0026 Lever non-locking push parallel to body
- 0027 Lever locking pull parallel to body
- 0028 Lever non-locking pull parallel to body
- 0031 Push button
- Push button (panel mounting) 0032
- 0033 Push button with guard
- Push Pull 0034
- Push Pull (panel mounting) 0035
- Palm button 0036
- 0037 Palm button (panel mounting)
- 0038 Palm button with guard
- 0039 Push Pull palm button
- 0111 Cam roller parallel to ports 2 & 3
- 0112 Cam roller perpendicular to ports 2 & 3

002X - Replace 'O' with '2' for lever operator with Boot

Body - Note: Port 2 & 3 always = Cylinder Ports	
Indiv. Body - Ext. All 1/4"BSP, Individual Body	
-115 2 Pos - Single Pressure	
-215 2 Pos - Dual Pressure	
-515 3 Pos - Closed Centre	
-615 3 Pos - Open Centre	
-715 3 Pos - Pressure Centre, Dual Pressure,	
-815 3 Pos - Pressure Centre, Single Pressure, (F	^p ort 1 Inlet)
Stack - 3 Common Ports. All 1/4"BSP, Stacking Body	
-125 2 Pos - Single Pressure	
-225 2 Pos - Dual Pressure	
-525 3 Pos - Closed Centre	
-625 3 Pos - Open Centre	
-725 3 Pos - Pressure Control, Dual Pressure Por	ts 4&5 Inlet

-825 3 Pos - Pressure Control, Single Pressure Port 1 Inlet

Accessories

M - 08003	Dual inlet block
N-08001	lsolator plug port #1
N - 08002	Isolator plug ports #4 and #5
10951	Flow control and muffler
M - 08001 - 03 - 01P*	Manifold end plate kit (style A)
M - 18001 - 02 - 01P*	Manifold end plate kit (style B)
M - 00005 - 03 - 01P**	Manifold end plate kit (style A)

*For stacks of 1 thru 16 valves **For stacks of 17 valves or more

ARGE WAY



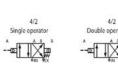
The MAC 2700 series is a versatile 4-way remote air operated valve with large flow capabilities. Versatility in piping means the valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open or can be used for vacuum, diverter or selector applications. Our one piece bonded seal spool means longer life and easy maintence. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 2703G-3

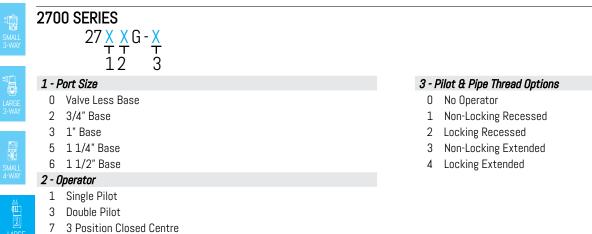
Function	Port size	Flow (Max)	Pressure Range	Individual Mounting
4/2, 4/3	3/4"-1"-1 1/4"-1 1/2"	15.9 Cv	Vac to 150PSI	Sub-Base

OPERATIONAL BENEFITS

- Balanced spool, immune to variations of pressure.
- Short stroke with high flow.
- The piston (booster) provides maximum shifting forces.
- Powerful return thanks to the combination of mechanical and air springs.
- Bonded spool with minimum friction, shifting in a glass-like finished bore.
- Wiping effect eliminates sticking.
- Low leakage rate.







BOTTOM PORTS Available only on 3/4" valves. For bottom ports only, specify MOD 0002. For side and bottom ports, specify 0004.

BASE ONLY

8

10986-1P	3/4" BSP
10987-1P	1" BSP
10988-1P	1 1/4" BSP
10989-1P	1 1/2" BSP

3 Position Open Centre



The MAC 6200 series is a versatile, 4-way, solenoid-piloted spool valve. Balanced poppet in the pilot and an air/spring return for consistent shifting, regardless of inlet pressure fluctuations. Balanced spool means valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open, and can be used for vacuum, diverter or selector applications. One piece, bonded seal spool means longer life and easy maintenance. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 6211C-000-PM-111DA

Function	Port size	Flow (Max)	Pressure Range	Individual Mounting
4/2, 4/3	1/4" - 3/8"	1.6 Cv	Vac. to 150PSI	Sub-Base

OPERATIONAL BENEFITS

- Balanced spool, immune to variations of pressure.
- Short stroke with high flow.
- High shifting forces.
- Powerful return force thanks to the combination of mechanical and air springs.
- Bonded spool with minimum friction, shifting in a glass-like finished bore.
- Wiping effect eliminates sticking.
- Pilot valve with balanced poppet, high flow, short and consistent response times.

6200 SERIES

1-1	Function		
1	Single Solenoid	2	Double Solenoid
3	3 Position Closed Centre	4	3 Position Open Centre
2-1	Body Type		
1	Plug-In	2	Non Plug-In Or Remote Air
3	Plug-In Lights In Body		
3-1	Port Size		
0	Valve Only-No Base	1	1/4" Base
2	3/8" Base	4	1/4" Manifold
5	3/8" Manifold		
4 - 1	Pilot Air - BSPP Options		
0	Valve Only-No Base	5	Internal Pilot
6	External Pilot	7	Int. Pilot (Sgl. Remote Air)
8	External Pilot (Double Remote Air)		
5 - 1	Porting Options		
0	Valve Only-No Base	1	Side Ports without lights
2	Side Ports with lights (Sgl. Sol.)	3	Side Ports w/lights (Dbl. Sol)
4	Bottom Ports without lights		
5	Bottom Ports with lights (Single So	olen	oid)
6	Bottom Ports with lights		
7	Side & bottom Ports without lights	*	
8	Side & bottom Ports with lights (Si	ingl	e Solenoid)*
9	Side & bottom Ports with lights (De	oub	le Solenoid)*
*Ma	anifold Bases Only		
6 - 1	Dilot Exhauat		

6 - Pilot Exhaust

- PM Pilot Exhaust Muffled
- RA Remote Air

PP Pilot Exhaust Piped

If RA is selected XX & Y options do not apply. Other AC & DC voltages available. DC wattages from 1.0 up to 17 watts.

7 - Voltage			
AC Voltage			
11 120/60, 110)/50	22	24/50-60
39 240/50			
DC Voltage			
50 24VDC (6W)		55	12VDC (6W)
57 12VDC (2.5W	')	59	24VDC (2.5W)
60 12VDC (8.5V	V)	61	24VDC (8.5W)
8 - Manual Operato	rs		
0 No Operator		1	Non-Locking Ressd. (Std.)
2 Locking Rece	ssed	3	Non-Locking Extended
4 Locking Exter	ided		
9 - Electrical Conne	ectors		
DA Plug In			
JC Din Square	w/Light (Non Plug-In)		
JD Din Rectang	le w/Light (Non Plug	-In)	
MODIFICATIONS			
M0D0210	Bottom inlet port in	add	ition to side inlet port
	(manifolds only).		· · · · · · · · · · · · · · · · · · ·
	(mannelde enig).		
NOTE:			
	ase is always the san	ne fr	or internal or external pilot.
	e effected in the bas		
-			alve, choose the base or
			then add 6200C as a prefix.
			n for manifold bases, a
•			Ine connection only is
			whether single or double
solenoid		TUIU	
0010110101	opoid and romata air	0001	rated values must be ganged
		ohei	rated valves must be ganged
separately.	ories: Inlet & Exhaust	Lac	latara #22020
o. Mannulu access	unes. Iniet a Exhausi	150	181015 #32039

6200 SERIES





The MAC 6300 series are a versatile 4-way solenoid piloted spool valve. This series feature our balanced poppet in the pilot and an air/spring return for consistant shifting regardless of inlet pressure fluctuations. Our balanced spool means the valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open or can be used for vacuum, diverter or selector applications. Our one piece bonded seal spool means longer life and easy maintence. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 6311C-000-PM-501DA

Function	Port size	Flow (Max)	Pressure Range	Individual Mounting		
4/2, 4/3	3/4" - 1/2"	3.0 Cv	Int.: sgle. op. & 3 pos.: 25-150PSI	Sub-Base	-	
			dble. op.: 10-150PSI	4/2		A CONTRACTOR OF
OPERATION	IAL BENEFITS		Ext.: vac. to 150PSI	Single operator		A CALLER COLOR
- Balance	d spool, immur	ne to variations o	f pressure.	ؠۛؾۊٳٵڷ؆ؖؾڡ		
- Short st	troke with high	flow.	•			
	ifting forces.			4/2		
•	•	guarantees maxi	mum pilot pressure.	Double operator	6300) SERIES
		-	nbination of mechanical and air springs.	₽ ₽I X₽₽	0000) OLIVILO
			hifting in a glass-like finished bore.	IN O RECH		
	effect eliminate			4/3	4/3	4/3
		0	low, short and consistent response times	Closed center	Open center	Pressure center
1 1100 40		od poppor, mgm				
				IN O WEXH	IN O PEXH	IN O VEXH

6300 SERIES 63 X X D - X X X - XX - XX X X

LARC 3-W/ SMAL 4-W/

		12	345	Ġ	Ż	8	9
1	- Function						
	3 3 Posit	Solenoid tion Closed tion Pressur			2 4		e Solenoid ition Open Centre
2	- Body Typ						
* E Y	* <i>Dual pres</i> : 63X4D: Plu	Lights In Bo <i>sure body op</i> Jg-In	otion for u	ise witl	n reg	5 Dual gulator	Plug-In Or Remote Air Pressure Options ** <i>s:</i> on Plug-In
	- Port Size	ıg-ln w/ Ligł	nts				
		Inly-No Base	9		1 3	1/4" E 1/2" E	
_	4 1/4" M 6 1/2" M	anifold			5	3/8"	Manifold
4		BSPP Optic					
	6 Externa	Inly-No Base al Pilot al Pilot (Dou		ote Air)	5 7		al Pilot ilot (Single Remote Air)
5	- Porting O			í			
	2 Side Po	nly-No Base orts w/lights Ports with	s (Sgl. So		3	Side F	Ports - No lights Ports w/lights (Dbl.Sol.) Ports w/lights (Sgl.Sol.)
	8 Side & 9 Side &	n Ports with bottom Por bottom Por	ts with lig			e Soler	
	Manifold Ba	,					
-	- Pilot Exh		(() I	DD 7		F 1	
	RA Remo	Exhaust Mu ote Air c <i>ted XX & Y</i>					ist Piped r AC & DC voltages

available. DC wattages from 1.0 up to 17 watts.

7 - Va	oltage			
AC Va	oltage			
11	120/60, 11	0/50	22	24/50-60
39	240/50			
DC Vi	oltage			
50	•		55	12VDC (6W)
57	- (-	•	59	
60	12VDC (8.5	,	61	24VDC (8.5W)
8 - M	anual Operato	nrs		
0	No Operator		1	Non-Locking Recessed (Std.)
	Locking Rece		3	Non-Locking Extended
	Locking Exte			
9 - El	lectrical Conn			
DA	Plug In Base		JC	Din Square w/Light (Non Plug In)
JD	Din Rectang	le w/Light (No	n Plu	g In)
	FICATIONS			
MO	D0210			in addition to side inlet port
		(manifolds o	only).	
NOTE				
		ase is alwavs	the s	ame for internal or external pilot.
		-		ase or manifold.
				the valve, choose the base or
				tions, then add 6300D as a prefix
				nection for manifold bases, a
	•	•		dard. One connection only is
				nifold whether single or double
	llenoid.			
		lonnid and ron	noto o	ir operated valves must be gange
4. 1110	11110103 101 30			וו טףכומנכט אמואכט וווטטנ טכ צמווצכ

 Manifolds for solenoid and remote air operated valves must be ganged separately.



The MAC 6500 series are a versatile 4-way solenoid piloted spool valve. This series feature our balanced poppet in the pilot and an air/spring return for consistant shifting regardless of inlet pressure fluctuations. Our balanced spool means the valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open or can be used for vacuum, diverter or selector applications. Our one piece bonded seal spool means longer life and easy maintence. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 6511C-000-PM-112DA

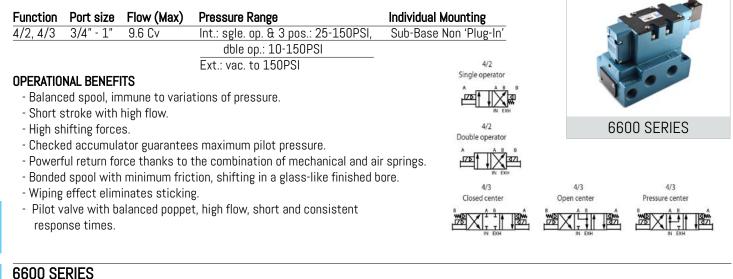
Function	Port size	Flow (Max)	Pressure Range	Individual N			-
1/2, 4/3	3/8" - 3/4"	5.1 Cv	Int.: sgle. op. & 3 pos.: 25-15	OPSI, Sub-Base N	lon 'Plug-In'		
			dble. op.: 10-150PSI		4/2		
PERATIO	NAL BENEFITS	•	Ext.: vac. to 150PSI		Single operator		
- Balanc	ed spool, imm	une to variatic	ins of pressure.		ؠؖڟؚٵؚڸڕ		
- Short s	stroke with hig	gh flow.			IN EXH		
- High sł	hifting forces.				4/2		
- Checke	ed accumulato	r guarantees r	naximum pilot pressure.		Double operator	650	DO SERIES
- Powerf	ful return force	e thanks to the	e combination of mechanical an	ıd air springs.		000	00 021120
- Bondeo	d spool with m	inimum frictio	n, shifting in a glass-like finish	ed bore.	IN EXH		
- Wiping	effect elimina	ates sticking.			4/3 Closed center	4/3 Open center	4/3 Pressure center
- Pilot va	alve with balaı	nced poppet, h	igh flow, short and consistent i	response times.		พิเยา สาริการาเสาต์	
			-				
6500 SE							
			VV V VV				
	oo 🕇 🕇 R - 🥇	(<u>X X</u> - <u>XX</u> - T T T T 3 4 5 6	4 + 4				
	12 3	3456	7 8 9				
1 - Functi		, 4 0 0	, , , ,	7 - Voltage			
	le Solenoid		2 Double Solenoid	AC Voltage			
-	isition Closed C		4 3 Position Open Centre	11 120/60	N 110/50	22 24/5	0-60
	sition Pressure		4 3 FUSICION OPEN CENTRE	39 240/50		ZZ Z4/J	0 00
2 - Body T		Centre		DC Voltage	J		
	••		2 Non Plug-In Or Remote Air			55 12VD	
1 Plug-			2 Non Plug-In Of Remote All				
-	In Lights In Bod			57 12VDC			IC (2.5W)
3 - Port Si		options for use	with regulator	60 12VDC		61 24VD	JC (8.5W)
			1 0/0" D	8 - Manual Op		1 Nam La	alian Deserved (Ot
	e Only-No Base		1 3/8" Base	0 No Opera			ocking Recessed (Sto
	Base		3 3/4" Base	-	Recessed	3 Non-Lo	ocking Extended
	' Manifold		5 1/2" Manifold		Extended		
	Manifold			9 - Electrical			
	ir - BSPP Option		5 1	DA Plug In			
	only-No Base		5 Internal Pilot		uare w/Light (Non Plu	• •	
	rnal Pilot		7 Internal Pilot (Sgl. Rem. Air)	JD Din Re	ctangle w/Light (Non	Plug-In)	
	rnal Pilot (Doubl	e Remote Air)					
-	g Options			MODIFICATION		<i>(</i>	<u>`</u>
	e Only-No Base				tom inlet, exh, & cyl p		ts)
-	e Pressure - No	-			lividual Base 3/8" & 1		
•		lights (Single S			side porting & additio		, exh, & cylinder port
-		lights (Double S	Solenoid)		lividual Base 3/8" only		
	Pressure - No li	-		0112 Side	e inlet & exhaust w/ b	ottom cyl. ports	(No end cyl. ports)
		ights (Single So			manifold models.		
		ights (Double Sc			ing ordered in model r	number + an add	itional bottom inlet.
Note: For	sandwich regula	ators use Single	Pressue option	All	manifold models.		
	Txhaust			0364 SINC	GLE PRESSURE - Side	inlet & exhaust	and additional botto
6 - Pilot E	ot Exhaust Muff	ed	PP Pilot Exhaust Piped	inle	et with bottom cyl. po	rts (No end cyl. p	ports)
6 - Pilot E							
6 - Pilot E				DUA	L PRESSURE - same a	as single pressur	e except with two
6 - Pilot E PM Pilo RA Rem	note Air		pply. Other AC & DC voltages		L PRESSURE - same a ttom inlets.	as single pressur	e except with two



The MAC 6600 series are a versatile 4-way solenoid piloted spool valve. This series feature our balanced poppet in the pilot and an air/spring return for consistant shifting regardless of inlet pressure fluctuations. Our balanced spool means the valve can be piped as a 4-way, 3-way or 2-way, normally closed or normally open or can be used for vacuum, diverter or selector applications. Our one piece bonded seal spool means longer life and easy maintence. For more information regarding

certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

Stock Part Number: 6611-A-000-PM-391DA



5	1 - Function						
BJ ALL	1	Single Solenoid	2	Double Solenoid			
VAY	3	3 Position Closed Centre	4	3 Position Open Centre			
	5	3 Position Pressure Centre					
	2 - Body Type						
	1	Plug-In	2	Non Plug-In Or Remote Air			
-WAY	3	Plug-In Lights In Body					
	3-1	Port Size					
	0	Valve Only-No Base	2	3/4" Base			
<u>or</u> 10	3	1" Base	4	3/4" Manifold			
VES	5	1" Manifold	6	1 1/4" Manifold			
	4 - 1	Pilot Air BSP Options					
PC VES	0	Valve Only-No Base	5	Internal Pilot			
	6	External Pilot	7	Internal Pilot (Sgl. Rem. Air)			
	8	External Pilot (Double Remote Air)					
SE	5 - 1	Porting Options					
	0	Valve Only-No Base					
	1	Single Pressure - No lights					
VES	2	2 Single Pressure with lights (Single Solenoid)					
	3	3 Single Pressure with lights (Double Solenoid)					
	1	Dual Proceure without lighte					

- 4 Dual Pressure without lights
- 5 Dual Pressure with lights (Single Solenoid)
- 6 Dual Pressure with lights (Double Solenoid)

6 - Pilot Exhaust					
PM Pilot Exhaust Muffled					
PP Pilot Exhaust Piped					
RA Remote Air					
If RA is selected XX & Y options do not apply. Other AC & DC voltages					
available. DC wattages from 1.0 up to 17 watts.					
7 - Voltage					
AC Voltage					
11 120/60, 110/50	22	24/50-60			
39 240/50					
DC Voltage					
50 24VDC (6W)	55	12VDC (6W)			
57 12VDC (2.5W)	59	24VDC (2.5W)			
60 12VDC (8.5W)	61	24VDC (8.5W)			
8 - Manual Operators					
0 No Operator					
1 Non-Locking Recessed (Standard)					

- 2 Locking Recessed
- 3 Non-Locking Extended
- 4 Locking Extended

9 - Electrical Connectors

- DA Plug In
- JC Din Square w/Light
- JD Din Rectangle w/Light

MODIFICATIONS

0002	Bottom inlet, exh, & cyl ports (Side ports plugged) Individual Base 3/4" only.
0004	Full side porting & additional bottom inlet, exh,
	& cylinder ports.
	Individual Base 3/4" only.
0112	Side inlet & exhaust w/ bottom cyl. ports (Side
	cylinder ports plugged)
	Individual Base 3/4", Manifold Base 3/4" & 1".
0210	1 1/4" bottom inlet.
	Manifold Base.
0364	1 1/4" bottom inlet, 3/4" or 1" bottom cylinder.
	Manifold Base.

CLSF Class F coil option. All voltages.

NOTE:

- 1. The valve less base is always the same for internal or external pilot. These options are effected in the base or the manifold.
- 2. Bottom ports: Refer modification table below.
- 3. To order bases or manifolds without the valve, choose the base or manifold from the above table & options, then add 6600A as a prefix.
- 4. When ordering an external pilot connection for manifold bases, a com mon external pilot port is standard. One connection only is require for all the valves in the manifold whether single or double solenoid.
- 5. MANIFOLD ACCESSORIES: Inlet & exhaust isolator #28367
- 6. 2 position & 3 position valve bodies are not interchangable.

PULSE

JLLE