53 SERIES

The MAC 53 series is a 3-way blanced spool valve piloted by a small direct operated 4-way solenoid pilot. The 4-way pilot means a low minimum operating pressure - no pistons or return springs - results in 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 please ask our team at Mac Valves Pacific.
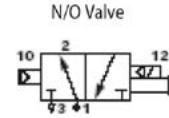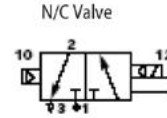
Stock Part Number: 53A-1AD-DM-DDAJ-1JD

Function	Port size	Flow (Max)	Pressure Range	Individual Mounting
3/2 NO-NC	1/4" - 3/8"	2.0 Cv	Int. 20-120PSI	Inline
			(Mem. spring op.: 35-120 PSI)	
			Ext. pilot: Vac to 120PSI	

OPERATIONAL BENEFITS
- The 4-way pilot develops maximum shifting force both ways.
- Memory spring available.
- Balanced spool, immune to variations of pressure, also provides high flow.
- Short stroke with high flow.
- Bonded spool with minimum friction, shifting in a glass-like finished bore.
- Pilot with balanced poppet, high flow, short and consistent response times.
- Wiping effect eliminates sticking
- Long service life.

53 SERIES

N/C Valve   N/O Valve

53 SERIES VALVE & BODY OPTIONS

53A - X X X - XX - D XX X - X XX
      1 2 3   4   G 5 6 7 8

1 - Spool Type
- 0 Base Only
- 1 Single Operator Normally Closed
- 2 Single Operator Normally Open
- 5 Single Operator Normally Closed with Memory Spring
- 6 Single Operator Normally Open with Memory Spring

2 - Internal/External Pilot
Base Only Valve Only / Valve & Base
- A Internal Pilot
- B External Pilot from "10" End
- C External Pilot from "12" End

3 - Port Size And Thread Type
Ext. Pilot/Int. Pilot
- 0 Valve Only
- C 1/4" BSPPLL
- D 3/8" BSPPL

4 - Pilot Body
- DM Muffled Pilot Exhaust
- GM Muffled Pilot Exhaust

53 SERIES - DM SOLENOID PILOT OPTIONS

D XX X - X XX
  5 6 7 8

5 - 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) (MOD CLSF ONLY)
FA	12 VDC (1.8W)	DF	24 VDC (12.7W) (MOD CLSF ONLY)
FF	24 VDC (24W)	JF	240/50 (2.8w)

*Further Options Available

6 - Lead Wire Length
- A 18" Coil leads
- J External plug-in lead

*Longer leads available on request

7 - Manual Operator
- 0 No operator
- 2 Locking manual operator
- 4 Locking extended operator
- 1 Non-locking manual operator
- 3 Non-locking ext. operator

8 - Electrical Connector
BA	Grommet	JB Rectangular plug-in
JD	Rectangular plug-in with light	JM Rectangular male only
JA	Square Plug-In	JC Square Pug-In with light
JJ	Square Male Only	KA Mini plug-in
KB	Mini plug-in with diode	KC Mini plug-in w/M.O.V.
KD	Mini plug-in with light	KE Mini plug-in w/light & diode
KF	Mini plug-in w/light & M.O.V.	KJ Mini plug-in male
KG	Mini plug-in w/LED light & diode	KL Mini plug-in male w/M.O.V.
KK	Mini plug-in male only w/diode	

*Further Options Available

Complete Pilot Valve
DMB-DXXX-XXX-1 Pilot Valve

SMALL 3-WAY
LARGE 3-WAY
SMALL 4-WAY
LARGE 4-WAY
ISO VALVES
PPC VALVES
PULSE VALVES
BULLET VALVES

53 SERIES - SINGLE REMOTE AIR

53A - X X X - DM - RA1 X
      1 2 3   4   5   6

1 - Spool Type
- 0   Base Only
- 1   Single Operator Normally Closed
- 2   Single Operator Normally Open
- 5   Single Operator Normally Closed with Memory Spring
- 6   Single Operator Normally Open with Memory Spring

2 - Internal/External Pilot
- A   Internal Pilot
- B   External Pilot from "10" End
- C   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

53 SERIES - DOUBLE REMOTE AIR

53A - X X X - RA
      1 2 3

1 - Spool Type
- 0   Base Only
- 3   Double Operator Normally Closed
- 4   Double Operator Normally Open

2 - External Pilot
- D   Remote Air

3 - Cylinder Port Size And Thread Type
- 0   Valve Only
- C   1/4" BSPPL
- D   3/8" BSPPL

Note: For Single Operator Valves, Use MOD 1493

53 SERIES - CIRCUIT BAR (EBM)

EBM053A - XX X X X - XX - 9
          1 2 3 4   5

1 - Spacing
- 00   254mm Spacing

2 - Configuration
- A   Side Port
- B   Bottom Port

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

4 - Port Size & Thread Type
- D   1/4" BSPPL
- E   3/8" BSPPL

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

Plate Kit
- M-52001-01P   Right Hand End
- M-52003   Blank Station Kit for Manifold Body

*NOTE: "E" Option is considered a Middle Station

SMALL 3-WAY

LARGE 3-WAY

SMALL 4-WAY

LARGE 4-WAY

ISO VALVES

PPC VALVES

PULSE VALVES

BULLET VALVES