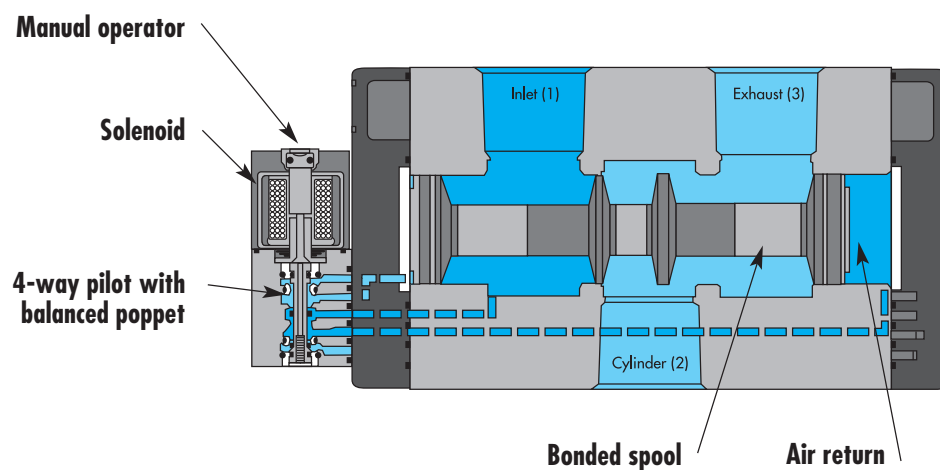


Direct solenoid and solenoid pilot operated valves

Individual mounting

Inline



SERIES FEATURES

- Patented MACSOLENOID® for fastest possible response times and virtually burn-out proof AC solenoid operation.
- Optional low watt DC solenoids.
- Normally closed or normally open valve function.
- Optional universal spool.
- Internal or external pilot.
- Optional memory spring.
- Checked accumulator.
- Optional pilot exhaust to main valve exhaust.
- May be plugged for 2-way operation.



Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow [Max]	Individual mounting
3/2 NO-NC, 2/2 NO-NC	G3/4" - G1"	20000 NI/min	Inline

OPERATIONAL BENEFITS

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



HOW TO ORDER

Port size	Pilot air	Single Operator		Double Operator	
		NO Valve	NC Valve	NO Valve	NC Valve
G3/4"	Internal	67A-Cx-CAA-DM-Dxxx-xxx	67A-Ax-CAA-DM-Dxxx-xxx	67A-Dx-CAA-DM-Dxxx-xxx	67A-Bx-CAA-DM-Dxxx-xxx
G1"	Internal	67A-Cx-DAA-DM-Dxxx-xxx	67A-Ax-DAA-DM-Dxxx-xxx	67A-Dx-DAA-DM-Dxxx-xxx	67A-Bx-DAA-DM-Dxxx-xxx
G3/4"	External	67A-Cx-CAB-DM-Dxxx-xxx	67A-Ax-CAB-DM-Dxxx-xxx	67A-Dx-CAB-DM-Dxxx-xxx	67A-Bx-CAB-DM-Dxxx-xxx
G1"	External	67A-Cx-DAB-DM-Dxxx-xxx	67A-Ax-DAB-DM-Dxxx-xxx	67A-Dx-DAB-DM-Dxxx-xxx	67A-Bx-DAB-DM-Dxxx-xxx

SOLENOID OPERATOR ►

DM-D **xxx-xxx***

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
JA	110 V~/50Hz	A	45 cm	1	Non-locking	KA	Square connector
JB	220 V~/50Hz	B	60 cm	2	Locking	KD	Square connector with light
JC	24 V~/50Hz	J	Connector			JB	Rectangular connector
FB	24 V=/1,8W					JD	Rectangular connector with light
DA	24 V=/5,4W					BA	Flying leads
DF	24 V=/12,7W						

* Other options available, see page options.

OPTIONS

Spool type :

67A-XX-CAA-DM-Dxxx-yzz

- G Single operator universal spool
- H Double operator universal spool

Port configuration :

67A-XX-CXA-DM-Dxxx-xxx

- A Standard pilot exhaust
- B Pilot exhaust to main exhaust*
- C Pilot exhaust out adapter*

* Must use DU pilot

Mounting style :

67A-XX-XAX-DM-Dxxx-xxx

- G O-Ring mount

Spool return :

67A-CX-CAA-DM-Dxxx-yzz

- 1 Standard return
- 2 Standard return with memory spring

Pilot style :

67A-XX-CAA-DM-Dxxx-xxx

- M Pilot exhaust muffled
- R Pilot exhaust piped M5
- U Pilot exhaust to main exhaust

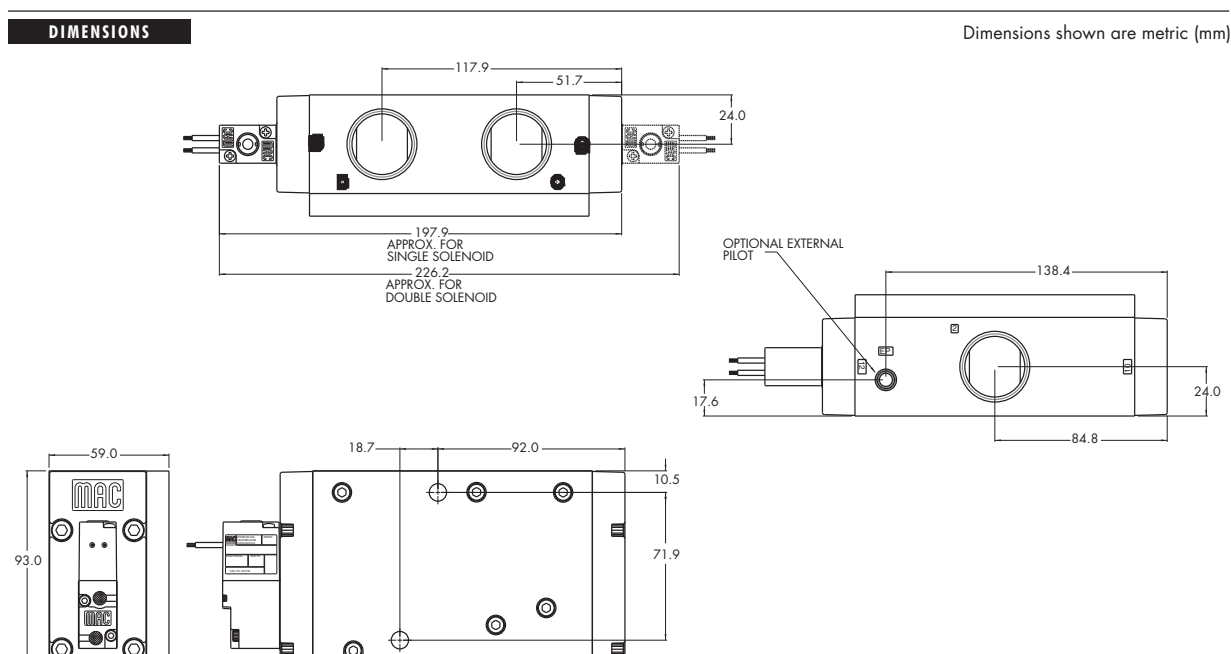


100%
OF
PRODUCTION
TESTED
100%

WARRANTY
18
MONTHS

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 1,3 to 8 bar External Pilot : Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	26,8 mm
Flow (at 6 bar, ΔP=1bar) :	3/4" : 14500 NI/min (Cv 14,5) – 1" : 20000 (Cv 20,0)
Coil :	Epoxy encapsulated – 100% ED
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP65 (electrical connection)
Power :	~ Inrush : 7.6 VA Holding : 4.8 VA = 12.7 to 1.0 W
Response times : (with 5,4 W coil)	Energize : 29 ms De-energize : 21 ms

Options : • NPTF threads



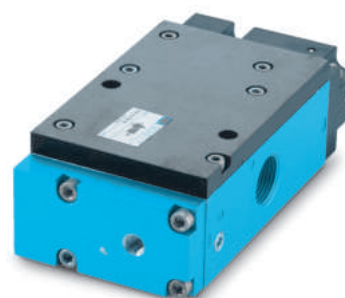


Remote air valves

Function	Port size	Flow [Max]	Individual mounting
3/2	G3/4" - G1"	20000 NI/min	Inline

OPERATIONAL BENEFITS

1. Balanced spool, immune to variations of pressure.
2. Powerful return forces thanks to the combination of mechanical and air springs.
3. Bonded spool with minimum friction, shifting in a glass like finished bore.
4. Wiping effect eliminates sticking.
5. Long service life.



HOW TO ORDER

Port size	Pilot air	Single Operator		Double Operator	
		NO Valve	NC Valve	NO Valve	NC Valve
G3/4"	Internal	67A-C3-CRA-RA	67A-A3-CRA-RA	67A-D4-CRA-RA	67A-B4-CRA-RA
G1"		67A-C3-DRA-RA	67A-A3-DRA-RA	67A-D4-DRA-RA	67A-B4-DRA-RA
G3/4"	External	67A-C3-CRB-RE	67A-A3-CRB-RE	-	-
G1"		67A-C3-DRB-RE	67A-A3-DRB-RE	-	-

Note : Designation 'RE' required on remote air models with main valve pressures of vacuum to 1,3 bar.

'RE' provides an external pilot and should have a pressure range of 1,3 - 5 bar. Since the external pilot supplies the air spring, it must not exceed the remote air pilot pressure.

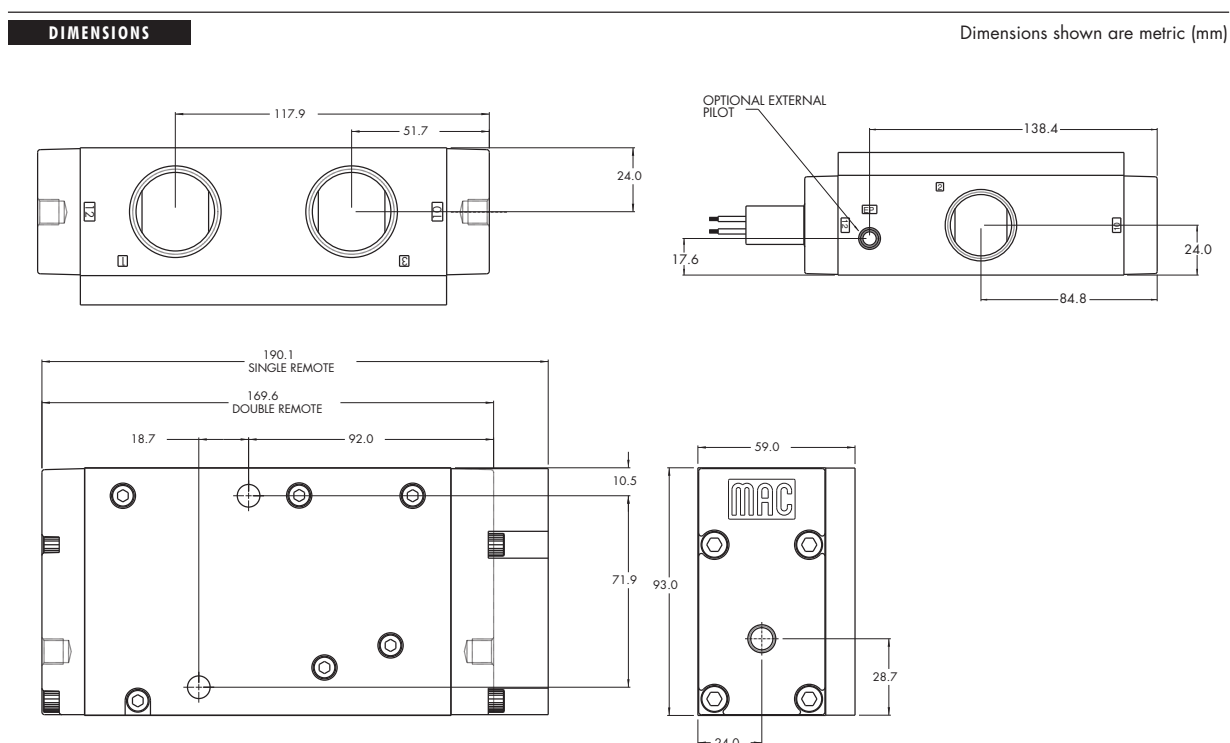


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OF
PRODUCTION
TESTED
100%

WARRANTY
18
MONTHS

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 10 bar
Air signal pressure :	1.3 to 10 bar (must be $\geq$ main valve pressure)
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 μ
Temperature range :	-18°C to +50°C
Orifice :	26.8 mm
Flow :	3/4" : 14500 NI/min (Cv 14.5) - 1" : 20000 NI/min (Cv 20.0)

Options : • NPTF threads





0 p t i o n s

Codification table for voltages / Manual operator / Electrical connection

VALVE CODE ► **-DM- D XX X-X XX**
1 2 3 4

1. VOLTAGE		4. ELECTRICAL CONNECTION	
D-XX X-X XX	VOLTAGE	D-XX X-X XX	ELECTRICAL CONNECTION
DA	24V=/5,4W	BA*	Flying leads
DB	12V=/5,4W	BK*	BA with protection diode
DC	12V=/7,5W	BL*	BA with protection varistor
DD	24V=/7,3W	BM**	Flying leads (solenoid plug-in)
DE	12V=/12,7W	BN**	BM with protection diode
DF	24V=/12,7W	BP**	BM with protection varistor
DK	110V=/4,7W	BG**	BM with ground
DJ	28V=/5,2W	BH**	BM with protection diode & ground
DL	64V=/6W	BJ**	BM with protection varistor & ground
DM	36V=/5,3W	CA*	1/2" NPS conduit with flying leads
DN	6V=/6W	CM*	1/2" NPS metal conduit with flying leads
DR	90V=/6,6W	CN*	1/2" NPS metal conduit with flying leads & ground
DS	110V=/7,3W	DG	Plug-in with ground
DT	75V=/5,6W	DH	Plug-in with diode & ground
DP	48V=/5,8W	DJ	Plug-in with M.O.V. & ground
FA	12V=/1,8W	DM	Plug-in
FB	24V=/1,8W	DN	Plug-in with diode
FE	12V=/2,4W	DP	Plug-in with M.O.V.
FF	24V=/2,4W	JB	Rectangular connector
JA	120V~/60Hz, 110V~/50Hz (2,9W)	JD	Rectangular connector with light
JB	240V~/60Hz, 220V~/50Hz (2,9W)	JM	Rectangular connector, male only
JC	24V~/60Hz, 24V~/50Hz (3,7W)	KA	Square connector
JD	100V~/60Hz, 100V~/50Hz, 110V~/60Hz (3,9W)	KB	Square connector with protection diode
JE	220V~/60Hz (3,4W)	KC	Square connector with protection varistor
JF	240V~/50Hz (2,8W)	KD	Square connector with light
JG	200V~/60Hz, 200V~/50Hz (3,9W)	KE	Square connector with light and protection diode
		KF	Square connector with light and protection varistor
		KG	Square connector with light & diode
		KJ	Square connector (male only)
		KK	Square connector with protection diode (male only)
		KL	Square connector with protection varistor (male only)
		TA	Dual tabs with receptacles
		TB	TA with protection diode
		TD	TA with light
		TE	TA with light and protection diode
		TJ	Dual tabs (male only)
		TK	TJ with protection diode
		TM	TJ with light
		TN	TJ with light and protection diode

2. WIRE LENGTH	
D-XX X-X XX	WIRE LENGTH
O	No wires
A	45 cm – 18"
B	60 cm – 24"
C	90 cm – 36"
D	120 cm – 48"
E	180 cm – 72"
F	240 cm – 96"

3. MANUAL OPERATOR	
D-XX X-X XX	MANUAL OPERATOR
0	No operator
1	Non-locking recessed
2	Locking recessed
3	Non-locking extended
4	Locking extended

* From Lead wire length options choose A through F
 ** From Lead wire length options choose O through F
 Note: When coil is above 30 volts, a ground wire is required. Applies to options with flying leads.