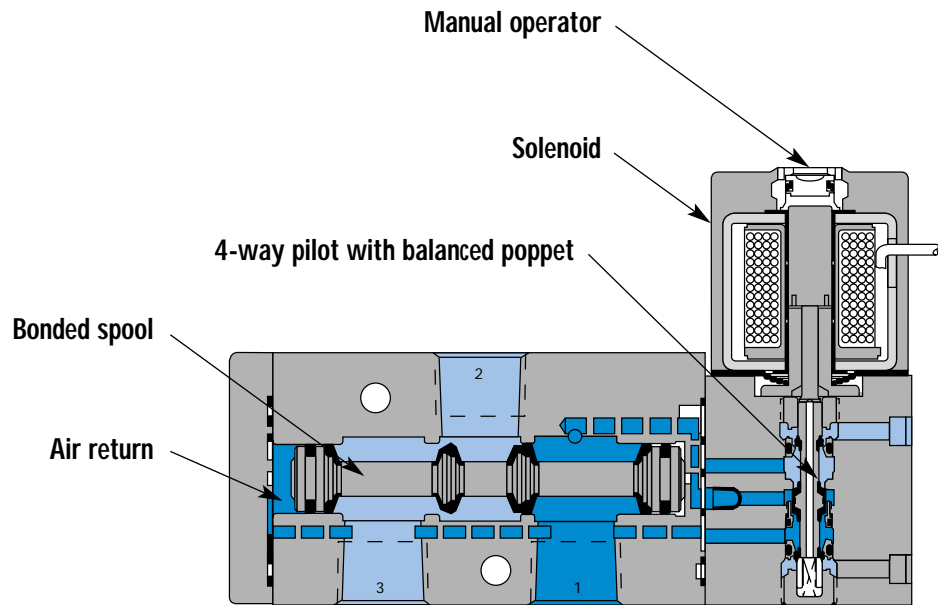


Individual mounting

Series

Inline



34

36

32

37

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52

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400

92

93

ISO 1

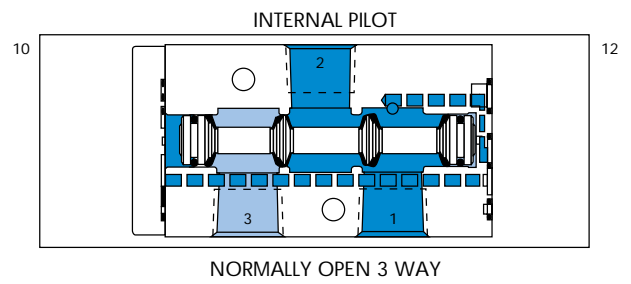
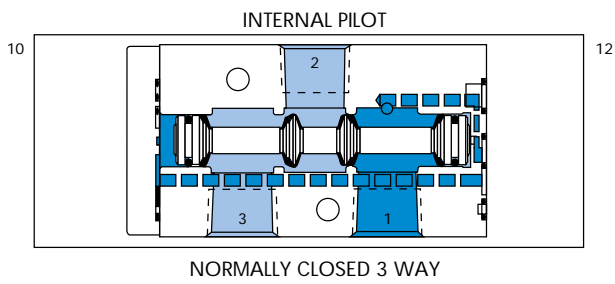
ISO 2

ISO 3

SERIES FEATURES

- Patented MACSOLENOID[®] for fastest possible response times and virtually burn-out proof AC solenoid operation.
- Optional low watt DC solenoids.
- Various manual operators.
- Optional memory spring.
- Normally closed or normally open valve function.
- May be plugged for 2-way operation.
- Internal or external pilot.

SPOOL CONFIGURATIONS



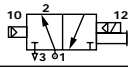
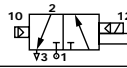
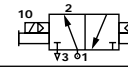
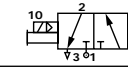
Function	Port size	Flow (Max)	Individual mounting	Series
3/2 NO-NC, 2/2 NO-NC	G1/8" - G1/4"	1500 NI/min	Inline	

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.
8. Long service life.



HOW TO ORDER

Port size	Pilot air	Single Operator		Double Operator	
		NO Valve	NC Valve	NO Valve	NC Valve
					
G1/8"	Internal	52A-31-C0A-XX-X-xxx-xxx	52A-11-C0A-XX-X-xxx-xxx	52A-41-C0A-XX-X-xxx-xxx	52A-21-C0A-XX-X-xxx-xxx
G1/4"	Internal	52A-31-D0A-XX-X-xxx-xxx	52A-11-D0A-XX-X-xxx-xxx	52A-41-D0A-XX-X-xxx-xxx	52A-21-D0A-XX-X-xxx-xxx
G1/8"	External	52A-31-C0B-XX-X-xxx-xxx	52A-11-C0B-XX-X-xxx-xxx	52A-41-C0B-XX-X-xxx-xxx	52A-21-C0B-XX-X-xxx-xxx
G1/4"	External	52A-31-D0B-XX-X-xxx-xxx	52A-11-D0B-XX-X-xxx-xxx	52A-41-D0B-XX-X-xxx-xxx	52A-21-D0B-XX-X-xxx-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 (Flying leads)	1	Non-locking	KA	Square connector
JB	220 V-/50Hz	B	60 cm (Flying leads)	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						

SOLENOID OPERATOR >

GM-G **xxx-xxx****

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
DC	24 V= /1,8W	A	45 cm	1	Non-locking	BA	Flying leads
DD	24 V= /2,5W	B	60 cm	2	Locking	BT	Flying leads with light
DF	24 V= /4W	C	90 cm			KA	Mini connector
						KT	Mini connector with light

* Click here for other options available.

** Click here for other options available.

OPTIONS

52A-31-C0A-XX-X-xxx-xxx

For memory spring, replace by **4** (single solenoid only)

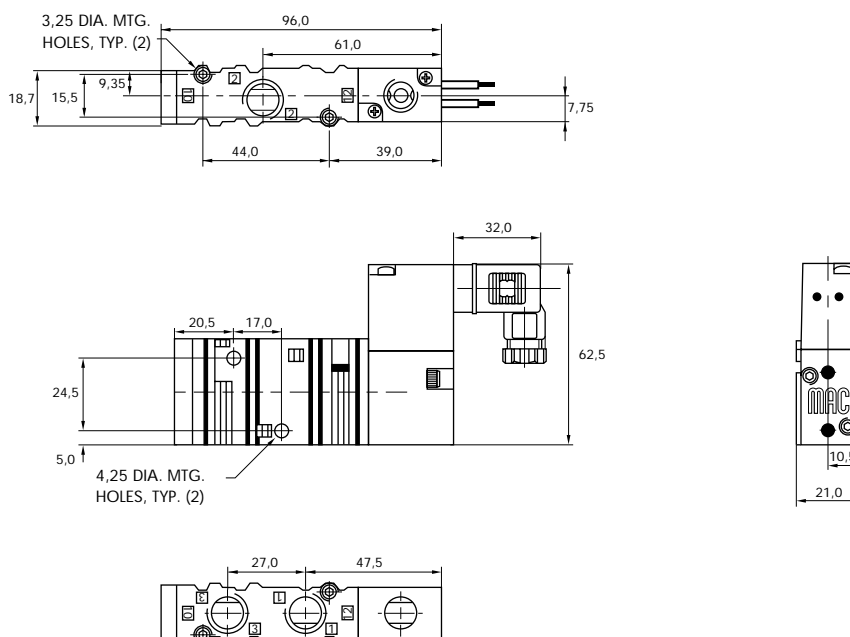
TECHNICAL DATA

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 :	7,3 mm
Flow (at 6 bar, ΔP=1bar) :	G1/8" : 1200 NI/min (Cv 1,2) – G1/4" : 1500 NI/min (Cv 1,5)
Coil :	Epoxy encapsulated – class A wires – 100% ED (specify mod 0449)
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (GM pilot) – IP64 (DM pilot) (electrical connection)
Power :	-Inrush: 10,9 VA Holding: 7,7 VA = 1,8 to 12,7 W
Response times :	24V~/5,4W Energize: 7,3 ms De-energize: 5,3 ms 110V~/50Hz Energize: 8-12 ms De-energize: 7-11 ms

Options : • NPTF threads

DIMENSIONS

Dimensions shown are metric (mm)



Individual mounting

Series

Inline

34

36

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37

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400

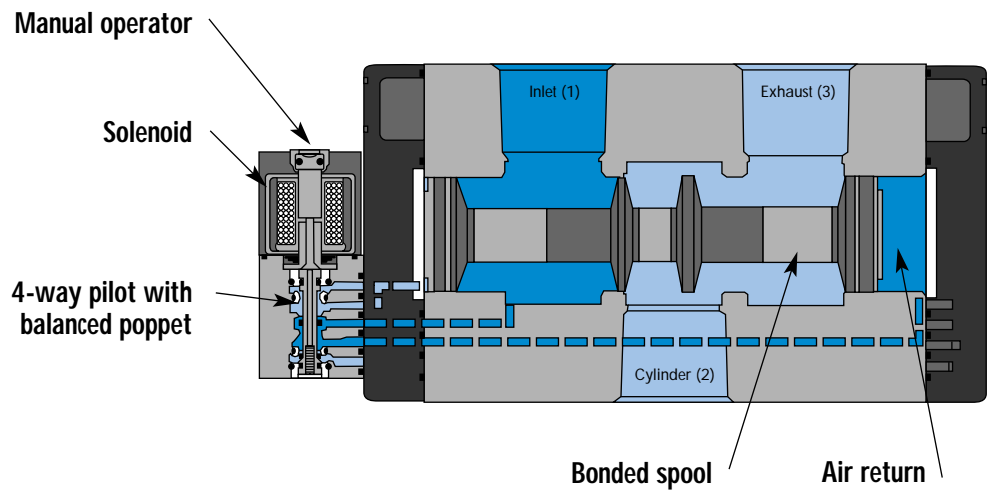
92

93

ISO 1

ISO 2

ISO 3



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.

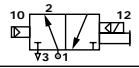
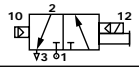
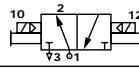
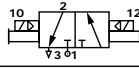
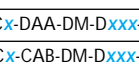
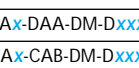
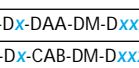
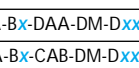
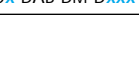
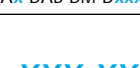
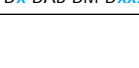
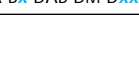


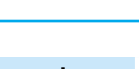
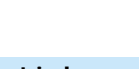
Function	Port size	Flow (Max)	Individual mounting	Series
3/2 NO-NC, 2/2 NO-NC	G3/4" - G1"	20000 NI/min	Inline	

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				
G1"		67A-Cx-CAA-DM-Dxxx-xxx	67A-Ax-CAA-DM-Dxxx-xxx	67A-Dx-CAA-DM-Dxxx-xxx	67A-Bx-CAA-DM-Dxxx-xxx
G3/4"	External				
G1"		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				
G1"		67A-Cx-CAB-DM-Dxxx-xxx	67A-Ax-CAB-DM-Dxxx-xxx	67A-Dx-CAB-DM-Dxxx-xxx	67A-Bx-CAB-DM-Dxxx-xxx
G3/4"	External				
G1"		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						

* Click here for other options available.

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

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

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 1,3 to 10 bar External Pilot : Vacuum to 10 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

DIMENSIONS

Dimensions shown are metric (mm)

