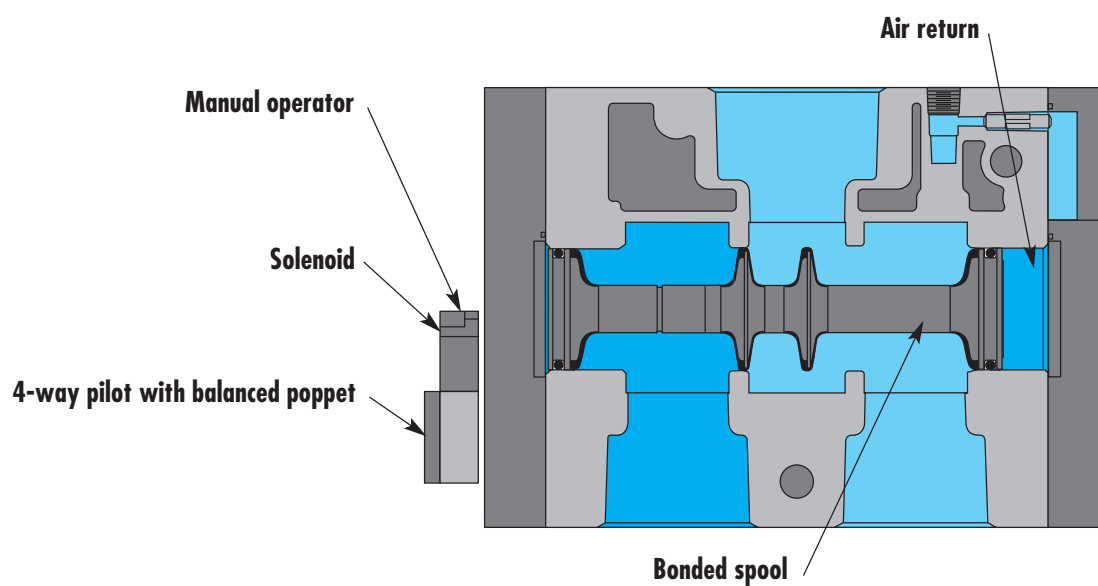




Direct solenoid and solenoid pilot operated valves

Individual mounting

Inline



SERIES FEATURES

- High force MACSOLENOID®.
- Optional low watt DC solenoids.
- Internal or external pilot.
- Normally open or normally closed function.
- Checked accumulator.
- May be plugged for 2-way operation.



Direct solenoid and solenoid pilot operated valves

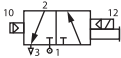
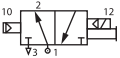
Function	Port size	Flow (Max)	Individual mounting
3/2 NO-NC, 2/2 NO-NC	G1 1/2" - G2" - G2 1/2"	60000 NI/min	Inline

OPERATIONAL BENEFITS

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



HOW TO ORDER

Port size	Pilot air	Single Operator NC valve	Single Operator NO valve
			
G 1 1/2"	Internal	69A-A1-DAA-Jxxx-xxx	69A-C1-DAA-Jxxx-xxx
G 2"		69A-A1-EAA-Jxxx-xxx	69A-C1-EAA-Jxxx-xxx
G 2 1/2"		69A-A1-FAA-Jxxx-xxx	69A-C1-FAA-Jxxx-xxx
G 1 1/2"	External	69A-A1-DAB-Jxxx-xxx	69A-C1-DAB-Jxxx-xxx
G 2"		69A-A1-EAB-Jxxx-xxx	69A-C1-EAB-Jxxx-xxx
G 2 1/2"		69A-A1-FAB-Jxxx-xxx	69A-C1-FAB-Jxxx-xxx

SOLENOID OPERATOR ►

J **xxx-xxx*** (-G) Add "G" for ground

XX Voltage	X Lead wire length	X Manual operator	XX Electrical connection*
AA 120V~/5,4W	0 No lead wire	1 Non-locking	BA Flying leads
DA 24V~/5,4W	A 45 cm	2 Locking	GA MAC JAC Solenoid plug-in
DB 12V~/5,4W	B 60 cm		GG MAC JAC Solenoid plug-in with rectifier
DC 24V~/2,4W	C 90 cm		JB Rectangular connector
DD 12V~/2,4W			JD Rectangular connector with light
			KA Mini square connector
			KD Mini square connector with light

* Other options available, see page options.

Note : - Use "O" no lead wire for "J", "K" and "L" type electrical connector.
- AC voltage requires connector with rectifier.

OPTIONS

Pilot exhaust configuration:

69A-xx-**XX**-DM-Dxxx-xxx

- A** Standard pilot exhaust
- B** Pilot exhaust out main exhaust
- M** Manifold O-Ring mount


$$5,4W - 2,4W - 1,8W$$

- NPTF threads

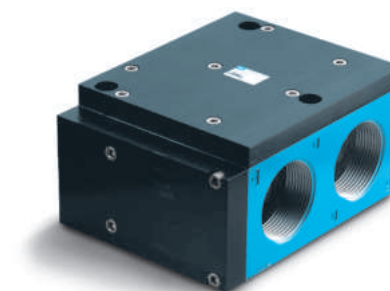


Remote air valves

Function	Port size	Flow (Max)	Individual mounting
3/2 NO-NC, 2/2 NO-NC	G1 1/2" - G2" - G2 1/2"	60000 NI/min	Inline

OPERATIONAL BENEFITS

1. Balanced spool, immune to variations of pressure
2. Bonded spool with minimum friction, shifting in a glass like finished bore
3. Wiping effect eliminates sticking and contamination
4. Long service life



HOW TO ORDER

SINGLE OPERATOR

Port size	Air Spring	Single Operator NO valve	Single Operator NC valve
G 1 1/2"	Internal	69A-C3-DRA-RA	69A-A3-DRA-RA
G 2"		69A-C3-ERA-RA	69A-A3-ERA-RA
G 2 1/2"		69A-C3-FRA-RA	69A-A3-FRA-RA
G 1 1/2"	External	69A-C3-DRB-RE	69A-A3-DRB-RE
G 2"		69A-C3-ERB-RE	69A-A3-ERB-RE
G 2 1/2"		69A-C3-FRB-RE	69A-A3-FRB-RE

DOUBLE OPERATOR

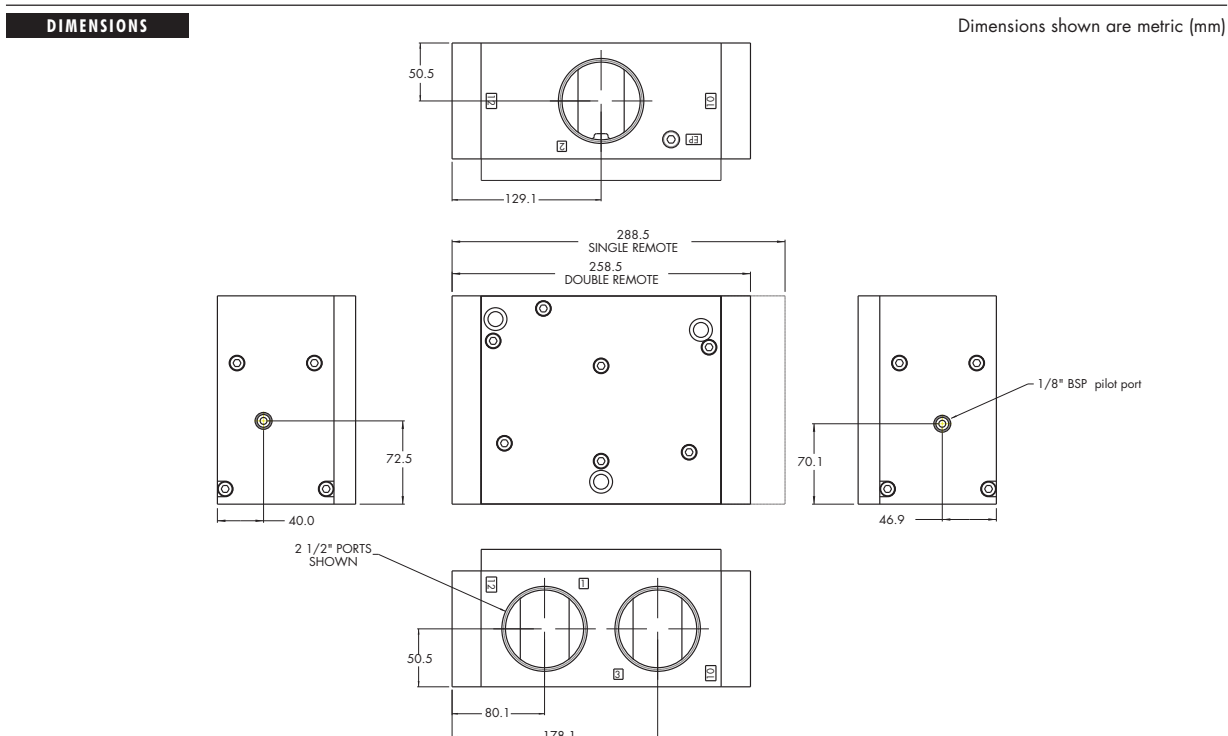
Port size	Double Operator NO valve	Double Operator NC valve
G 1 1/2"	69A-D4-DRB-RA	69A-B4-DRB-RA
G 2"	69A-D4-ERB-RA	69A-B4-ERB-RA
G 2 1/2"	69A-D4-FRB-RA	69A-B4-FRB-RA



100%
OF
PRODUCTION
TESTED
100%

WARRANTY
18
MONTHS

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Supply pressure:	Internal pilot: 1,3 to 10 bar External pilot: Vacuum to 10 bar
Air signal pressure :	1,3 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 :	46,5 mm
Flow :	60000 Nl/min (Cv 60.0)



Codification table for voltages / Manual operators / Electrical connections

VALVE CODE ►

J XX X-X XX
1 2 3 4

(Non Plug-in series)

1. VOLTAGE		J-XX X-X XX	ELECTRICAL CONNECTION
J-XX X-X XX	VOLTAGE	*JJ	Square connector Male only (Plain)
AA	120V~/5,4W	*JK	Square connector with rectifier
AC	24V~/5,4W	*JL	Square connector with rectifier with light
DE	24V~/1,8W	*JM	Rectangular connector Male only (Plain)
DF	12V~/1,8W	*JN	Rectangular connector with diode
DJ	24V~/1,3W	*JP	Rectangular connector with MOV
DL	12V~/1,3W	*JR	Rectangular connector with diode/light
DN	12V~/0,5W*	*JS	Rectangular connector with MOV/light
DR	12V~/1,0W*	*JT	Rectangular connector with rectifier
DS	24V~/0,5W*	*JU	Rectangular connector with rectifier with light
DU	24V~/1,0W*	* Not available on manifold or stacking valves	
* Not available on 36 series universal valves			
2. WIRE LENGHT		J-XX X-X XX	MINI SQUARE PLUG-IN CONNECTORS 9,4 MM SPACING BETWEEN PINS
J-XX X-X XX	WIRE LENGHT	KA	Mini plug-in
A	45 cm - 18" coil leads	KB	Mini plug-in with diode
B	60 cm - 24" coil leads	KC	Mini plug-in with MOV
C	90 cm - 36" coil leads	KD	Mini plug-in with light
D	120 cm - 48" coil leads	KE	Mini plug-in with diode and light
E	180 cm - 72" coil leads	KF	Mini plug-in with MOV and light
F	240 cm - 96" coil leads	KG	Mini plug-in with rectifier
P	Base plug-in	KH	Mini plug-in with rectifier and light
O	No leads (use with J, K & L type connectors)	KJ	Mini plug-in - Male only
		KK	Mini plug-in with diode - Male only
		KL	Mini plug-in with MOV - Male only
		KM	Mini plug-in with light - Male only
		KN	Mini plug-in with diode and light - Male only
		KP	Mini plug-in with MOV and light - Male only
		KR	Mini plug-in with rectifier - Male only
		KS	Mini plug-in with rectifier and light - Male only
		* Not available on manifold or stacking valves	
3. MANUAL OPERATOR		J-XX X-X XX	CONNECTORS FOR NON PLUG-IN VALVES MINI SQUARE PLUG-IN CONNECTORS 8.0 MM SPACING BETWEEN PINS ISO SPECIFICATION 15217
J-XX X-X XX	MANUAL OPERATOR	LA	Mini plug-in
0	No operator	LB	Mini plug-in with diode
1	Non-locking recessed	LC	Mini plug-in with MOV
2	Locking recessed	LD	Mini plug-in with light
3	Non-locking extended	LE	Mini plug-in with diode and light
4	Locking extended	LF	Mini plug-in with MOV and light
		LG	Mini plug-in with rectifier
		LH	Mini plug-in with rectifier and light
		LJ	Mini plug-in - Male only
		LK	Mini plug-in with diode - Male only
		LL	Mini plug-in with MOV - Male only
		LM	Mini plug-in with light - Male only
		LN	Mini plug-in with diode and light - Male only
		LP	Mini plug-in with MOV and light - Male only
		LR	Mini plug-in with rectifier - Male only
		LS	Mini plug-in with rectifier and light - Male only
4. ELECTRICAL CONNECTION		J-XX X-X XX	CONNECTORS FOR PLUG-IN VALVES
J-XX X-X XX	ELECTRICAL CONNECTION	FA	Base plug-in
BA	Flying leads	FB	Base plug-in with diode
GA	MAC JAC solenoid plug-in	FC	Base plug-in with MOV
GB	MAC JAC solenoid plug-in with diode	FD	Base plug-in with light
GC	MAC JAC solenoid plug-in with MOV	FE	Base plug-in with diode and light
GD	MAC JAC solenoid plug-in with light	FF	Base plug-in with MOV and light
GE	MAC JAC solenoid plug-in with diode and light	FG	Base plug-in with rectifier
GF	MAC JAC solenoid plug-in with MOV and light	FH	Base plug-in with rectifier and light
GG	MAC JAC solenoid plug-in with rectifier		
GH	MAC JAC solenoid plug-in with rectifier and light		
GJ	MAC JAC solenoid plug-in - Male only		
GK	MAC JAC solenoid plug-in with diode - Male only		
GL	MAC JAC solenoid plug-in with MOV - Male only		
GM	MAC JAC solenoid plug-in with light - Male only		
GN	MAC JAC solenoid plug-in with diode and light - Male only		
GP	MAC JAC solenoid plug-in with MOV and light - Male only		
GR	MAC JAC solenoid plug-in with rectifier - Male only		
GS	MAC JAC solenoid plug-in with rectifier and light - Male only		
*JA	Square connector		
*JB	Rectangular connector		
*JC	Square connector with light		
*JD	Rectangular connector with light		
*JE	Square connector with diode		
*JF	Square connector with MOV		
*JG	Square connector with diode/light		
*JH	Square connector with MOV/light		