



3/2-1/2" VALVES



5/2-1/2" VALVES



5/3-1/2" VALVES



SEMAKMATIC®
PNEUMATIC EQUIPMENTS



3/2-1/2" PILOT VALVES



5/2-1/2" PILOT VALVES



5/3-1/2" PILOT VALVES

www.sematik.tr

SME SERIE VALVES

1/2" SOLENOID - PILOT



SEMAKMATIC®
PNEUMATIC EQUIPMENTS

SME NEW SERIE VALVES

1/2 " SOLENOID VALVES

1/2 " PILOT OPERATED VALVES

ACCESSORIES

BASES

1/2 " SOLENOID VALVES



☐ 3/2 – ½" SOLENOID VALVES

Pag. M.01

☐ 5/2 – ½" SOLENOID VALVES

Pag. M.03

☐ 5/3 – ½" SOLENOID VALVES

Pag. M.07

1/2 " EXTERNAL PILOT VALVES



☐ 3/2 – ½" EXTERNAL PILOT VALVES

Pag. M.01

☐ 5/2 – ½" EXTERNAL PILOT VALVES

Pag. M.03

☐ 5/3 – ½" EXTERNAL PILOT VALVES

Pag. M.07

1/2 " PILOT-SPRING VALVES



☐ 3/2 – ½" PILOT SPRING VALVES

Pag. M.09

☐ 5/2 – ½" PILOT SPRING VALVES

Pag. M.10

☐ 5/2 - 1/2" DOUBLE PILOT VALVES

Pag. M.11

☐ 5/3 - 1/2" DOUBLE PILOT C.C. / O.C. VALVES

Pag. M.12

1/2 " DOUBLE PILOT VALVES



☐ COILS

Pag. M.13

☐ EXPROOF COILS

Pag. M.14

☐ SOCKETS

Pag. M.14

ACCESSORIES



☐ 1/2" BASE 2 POSITION

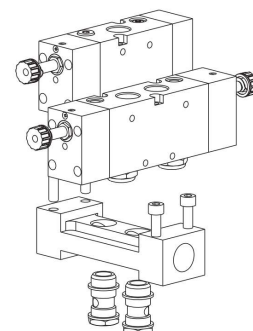
☐ 1/2" BASE 3 POSITION

Please ask for the technical department

www.sematik.tr

0090 533 747 76 94

1/2 " BASES



3/2 – 1/2" SINGLE SOLENOID N.C. / N.O.



- ☐ Flow rate is 4.600 NI / min. at 6 bar
- ☐ External pilot is available for all the solenoid serie with G1/8" thread
- ☐ Pneumatic connection ports 1.2.3.4.5 .. 1/2"
- ☐ Body Al. 2011 natural anodized
- ☐ Front cover Al. 2011 natural / Back cover Al. 2011 black anodized
- ☐ Min. working pressure is 2,5 bar
- ☐ 3 cycle / sec. reachable max. life time
- ☐ Suitable for vacuum and low pressure application with external pilot

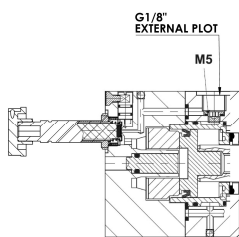
3/2 – 1/2" SINGLE SOLENOID / external pilot



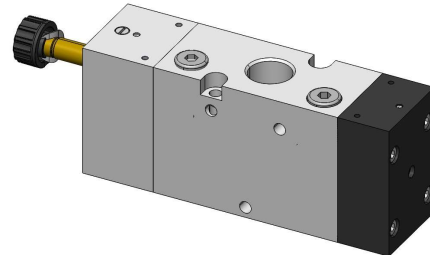
ORDERING CODES for a VALVE

3/2 – 1/2" SINGLE SOLENOID n.c.	: SME3212TB00MNA
3/2 – 1/2" SINGLE SOLENOID n.c. external pilot	: SME3212TB00MNA
3/2 – 1/2" SINGLE SOLENOID n.o.	: SME3212TB00MNA
3/2 – 1/2" SINGLE SOLENOID n.o. external pilot	: SME3212TB00MNA

external pilot



(3/2 single solenoid n.c.- n.o.)



Fluid : Compressed filtered air with or without lubrication

If lubrication used at ones must be continuous .

Pressure range : min.2,5 bar - max. 10 bar spring return with internal air pilot

Temperature range : - 10 ° C / + 50 ° C

Version : 3/2 - 1/2" spring return / external pilot / n.o. / n.c.

Materials

Covers : Front cover al. 2011 natural anodized back cover Al. 2011 black anodized

spool : Al. 6000 anodized 0,4 µm

Seals : NBR

Body : Natural anodized aluminium al. 2011

Nominal Orifice : 13 mm

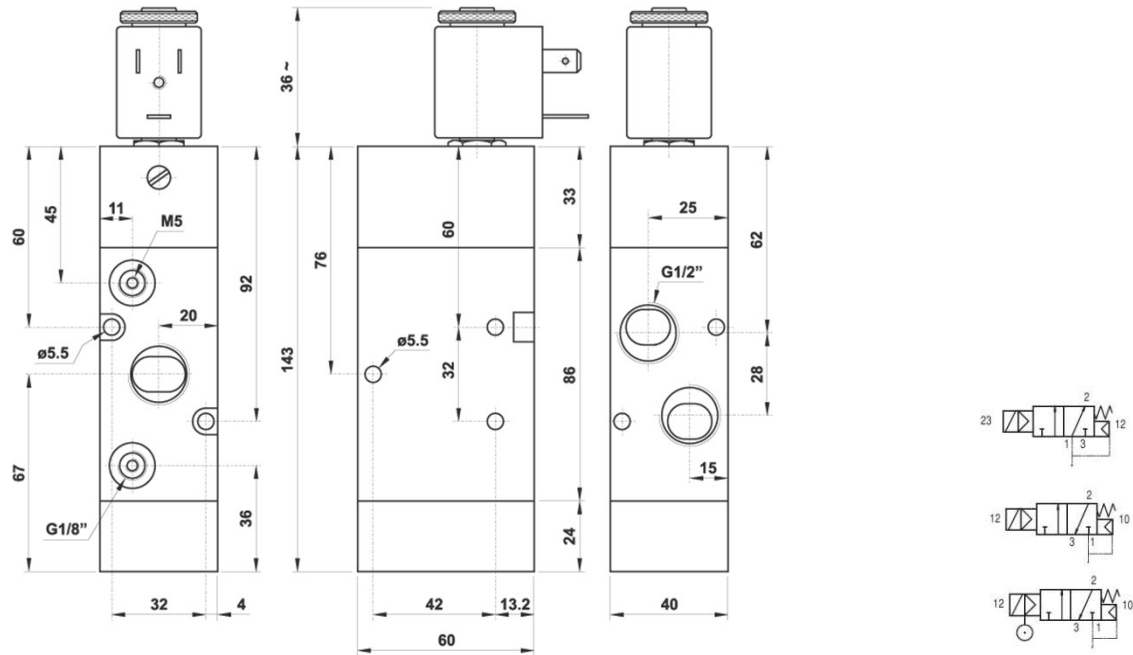
Mounting : In any position

Flow rate : 4.600 NI/ min. at 6 bar Δp 1 bar

Life time : 3 cycle / sec. with suitable cylinder / 50.000 cycle life time under proper condition

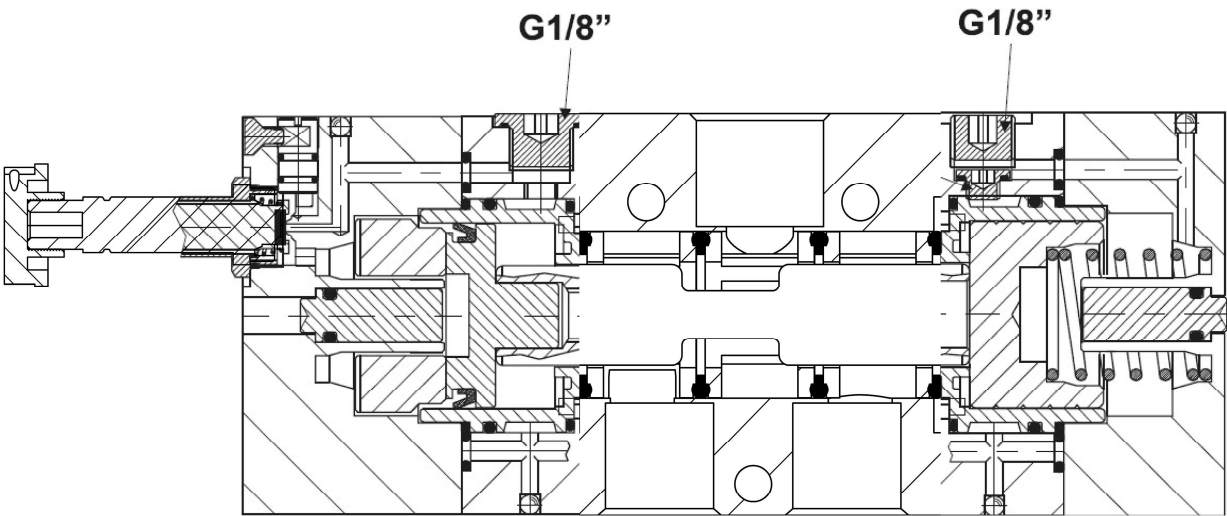
Vacuum & low pressure app. : Suitable with external pilot

DRAWING (N.C. / N.O.) (EXTERNAL PILOT)



SECTION

(3/2 single solenoid n.c. / n.o.)



ACCESSORIES & SPARE PARTS



COILS & SOCKETS
(page M.14)



O- RING KIT
Cod. SMV1201



9 mm BRASS
TUBE & NUCLEUS
Cod. SMV1202

5/2 – 1/2" SINGLE SOLENOID (spring return / external pilot)



- ❑ Flow rate is 4.600 NI / min. at 6 bar
- ❑ External pilot is available for all the solenoid serie with G1/8" thread
- ❑ Pneumatic connection ports 1.2.3.4.5 .. 1/2"
- ❑ Body Al. 2011 natural anodized
- ❑ Front cover Al. 2011 natural / Back cover Al. 2011 black anodized
- ❑ Min. working pressure is 2,5 bar
- ❑ 3 cycle / sec. reachable max. life time
- ❑ Suitable for vacuum and low pressure application with external pilot

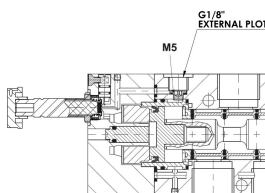
5/2 – 1/2" SINGLE SOLENOID / external pilot



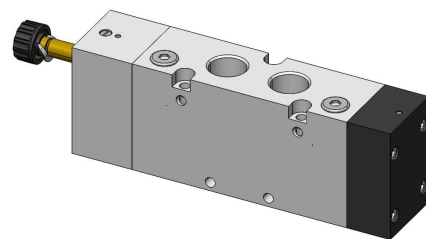
ORDERING CODES for a VALVE

5/2 – 1/2" SINGLE SOLENOID	: SME5212TB00M00
5/2 – 1/2" SINGLE SOLENOID external pilot	: SME5212TBDPM00

external pilot



(5/2 single solenoid)



Fluid : Compressed filtered air with or without lubrication

If lubrication used at ones must be continuous .

Pressure range : min.2,5 bar max. 10 bar spring return with internal air pilot

Temperature range : - 10 ° C / + 50 ° C

Version : 5/2 - 1/2" spring return / external pilot

Materials

Covers : Front cover al. 2011 natural anodized back cover Al. 2011 black anodized

spool : Al. 6000 anodized 0,4 µm

Seals : NBR

Body : Natural anodized aluminium al. 2011

Nominal Orifice : 13 mm

Mounting : In any position

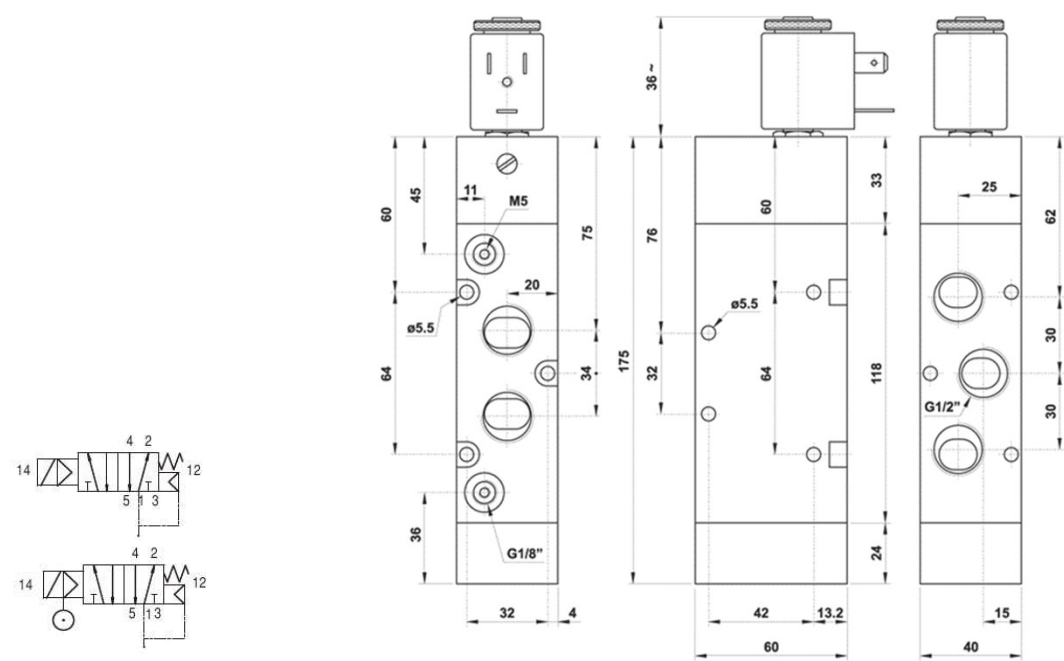
Flow rate : 4.600 NI/ min. at 6 bar Δp 1 bar

Life time : 3 cycle / sec. with suitable cylinder / 50.000 cycle life time under proper condition

Vacuum & low pressure app. : Suitable with external pilot

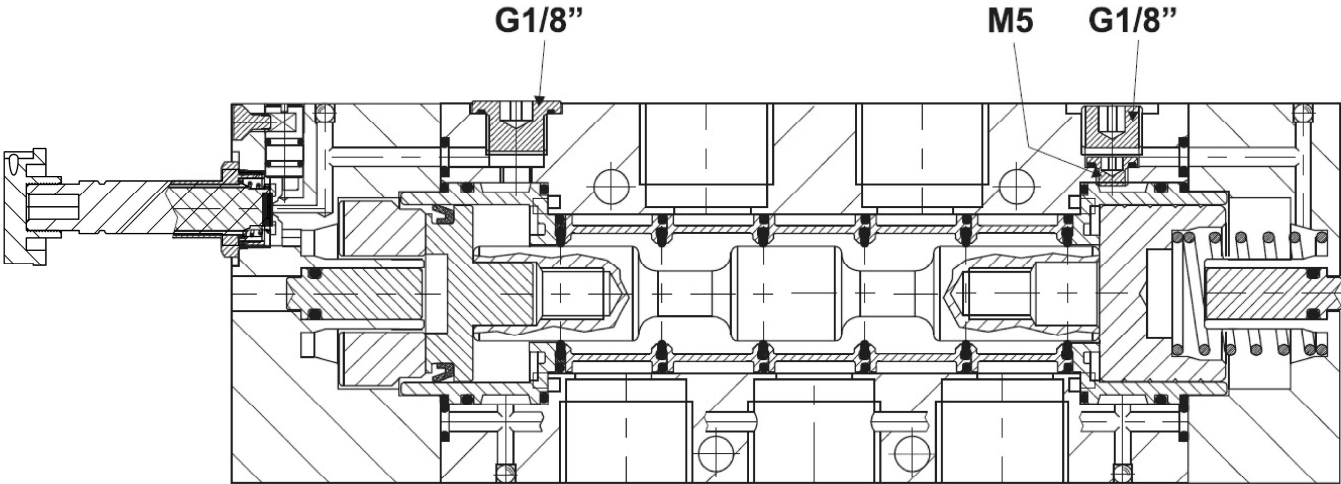
DRAWING

(5/2 spring return) (external pilot)



SECTION

(5/2 single solenoid)



ACCESSORIES & SPARE PARTS



COILS & SOCKETS
(page M.14)



O- RING KIT
Cod. SMV1201



9 mm BRASS
TUBE & NUCLEUS
Cod. SMV1202

5/2 – 1/2" DOUBLE SOLENOID (bistable / external pilot)



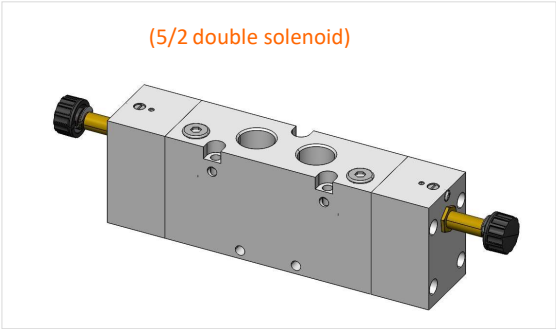
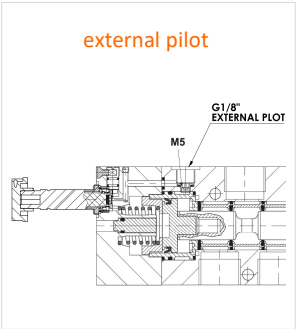
- ❑ Flow rate is 4.600 NI / min. at 6 bar
- ❑ External pilot is available for all the solenoid serie with G1/8" thread
- ❑ Pneumatic connection ports 1.2.3.4.5 .. 1/2"
- ❑ Body Al. 2011 natural anodized
- ❑ Covers Al. 2011 natural anodized
- ❑ Min. working pressure is 1 bar
- ❑ 3 cycle / sec. reachable max. life time
- ❑ Suitable for vacuum and low pressure application with external pilot

5/2 – 1/2" DOUBLE SOLENOID / external pilot



ORDERING CODES for a VALVE

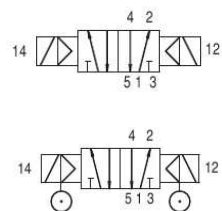
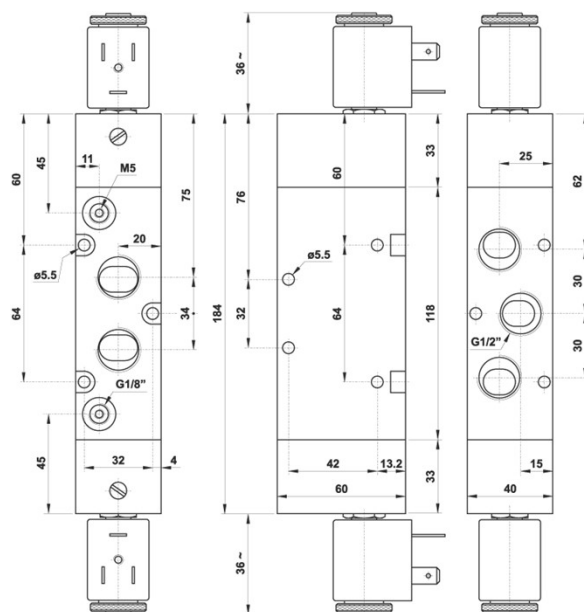
- 5/2 – 1/2" BISTABLE : SME5212CB00M00
- 5/2 – 1/2" BISTABLE external pilot : SME5212CBDPM00



Fluid	: Compressed filtered air with or without lubrication
	If lubrication used at ones must be continious .
Pressure range	: min.1 bar max. 10 bar
Temperature range	: - 10 ° C / + 50 ° C
Version	: 5/2 - 1/2" bistable double solenoid / external pilot
Materials	
Covers	: Covers al. 2011 natural anodized
spool	: Al. 6000 anodized 0,4 µm
Seals	: NBR
Body	: Natural anodized aluminium al. 2011
Nominal Orifice	: 13 mm
Mounting	: In any position
Flow rate	: 4.600 NI/ min. at 6 bar Δp 1 bar
Life time	: 3 cycle / sec. with suitable cylinder / 50.000 cycle life time under proper condition
Vacuum & low pressure app.	: Suitable with external pilot

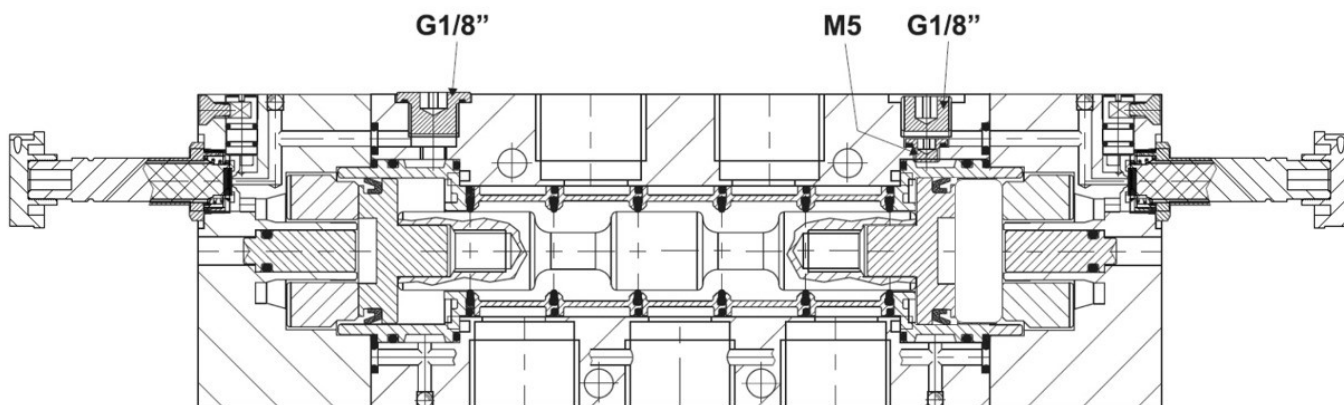
DRAWING

(5/2 bistable) (external pilot)



SECTION

(5/2 bistable solenoid)



ACCESSORIES & SPARE PARTS

COILS & SOCKETS
(page M.14)O- RING KIT
Cod. SMV12019 mm BRASS
TUBE & NUCLEUS
Cod. SMV1202

5/3 – 1/2" DOUBLE SOLENOID (closed center / external pilot)



- * Flow rate is 4.600 NI / min. at 6 bar .
- * Max working pressure is 10 bar .
- * Aluminium body.
- * Voltages are 24 v dc – 24 v ac – 110 v ac – 220 v ac – 12 v dc
- * Spool with spring return
- * Manuel override detendet
- * Min. working pressure is 1 bar
- * Suitable for non oily applications.

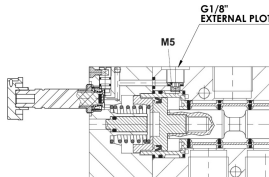
5/3 – 1/2" DOUBLE SOLENOID / external pilot



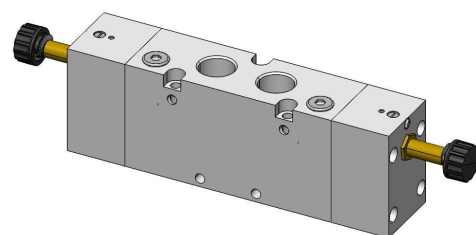
ORDERING CODES for a VALVE

5/3 – 1/2" DOUBLE SOLENOID	C.C	:	SME5312CB00MKM
5/3 – 1/2" DOUBLE SOLENOID	C.C. external pilot	:	SME5312CBDPMKM
5/3 – 1/2" DOUBLE SOLENOID	O.C.	:	SME5312CB00MAM
5/3 – 1/2" DOUBLE SOLENOID	O.C. external pilot	:	SME5312CBDPMAM

external pilot



(5/3 closed – open center)

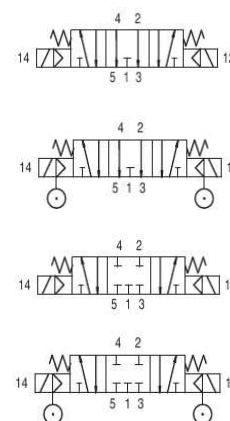
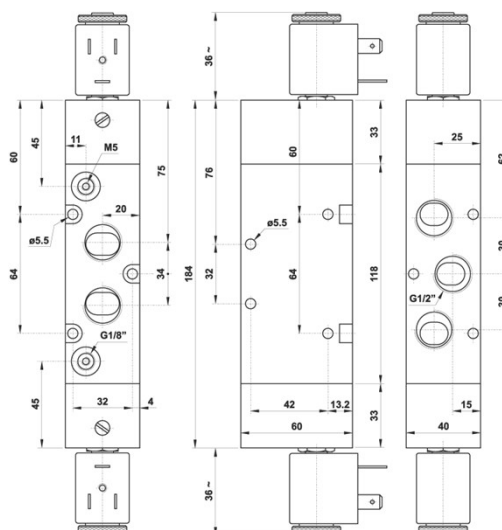


Fluid	:	Compressed filtered air with or without lubrication
		If lubrication used at ones must be continious .
Pressure range	:	min. 1 bar - max. 10 bar
Temperature range	:	- 10 ° C / + 50 ° C
Version	:	5/3 - 1/2" double solenoid / closed center / open center / external pilot

Materials

Covers	:	Covers al. 2011 natural anodized
spool	:	Al. 6000 anodized 0,4 µm
Seals	:	NBR
Body	:	Natural anodized aluminium al. 2011

Orifice	:	13 mm
Mounting	:	In any position
Flow rate	:	4.600 NI/ min at 6 bar
Cycle per min.	:	150 cycle / min (from port 2 or port 4 to neutral position)
Vacuum	:	Suitable with external pilot version



Technical drawing of a 4-way valve in cross-section. The drawing shows the internal structure, including the valve body, internal passages, and the G1/8" ports at the top. The valve is shown in a closed position, with the internal components (poppets) blocking the flow paths. The drawing is a detailed cross-section, showing the internal components and the G1/8" ports at the top.

The image shows two different models of pneumatic actuators. On the left is a black SImATIC actuator with the text 'SImATIC', 'PNEUMATIC POSITIONER', 'EXHAUSTION', '54 DC 7/8"', and '1/2"' printed on its side. On the right is a yellow SImATIC actuator with a threaded port on top and the text 'SImATIC', 'PNEUMATIC POSITIONER', and 'EXHAUSTION' visible on its side.

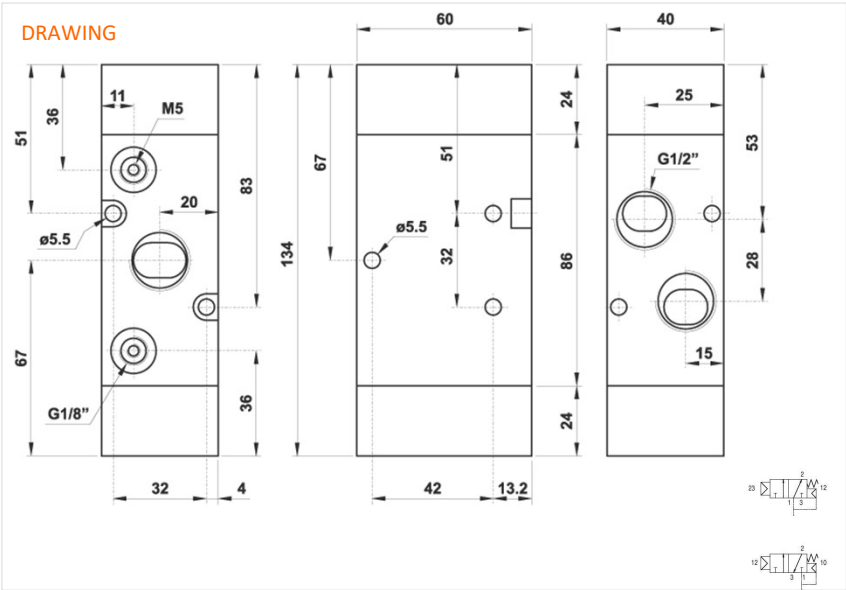


SEMAK MATIC
PNEUMATIC EQUIPMENTS

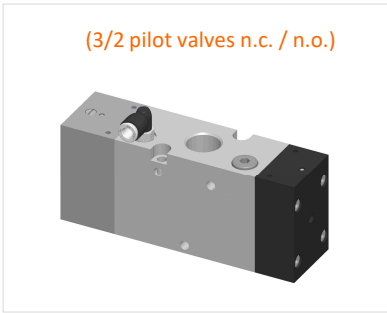
3/2 – 1/2" PILOT / SPRING



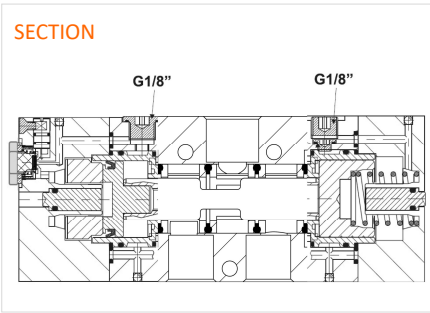
- ❑ Flow rate is 4.600 NI / min. at 6 bar
- ❑ Maximum working pressure is 10 bar
- ❑ Aluminium body
- ❑ Minimum working pressure is 2,5 bar
- ❑ Spool with spring return air pilot supported
- ❑ Suitable for non oily applications



(3/2 pilot valves n.c. / n.o.)



SECTION



ORDERING CODE for a VALVE

- | | |
|------------------------------------|------------------|
| 3/2 – 1/2" PILOT / SPRING (N.C.) | : SME3212HY00MNK |
| 3/2 – 1/2" PILOT / SPRING (N.O.) | : SME3212HY00MNA |

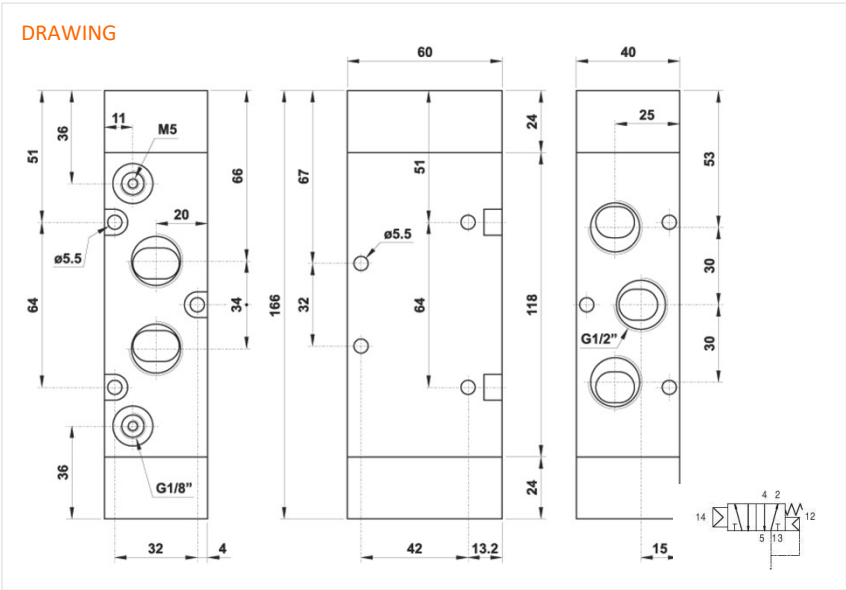
Fluid	: Compressed filtered air with or without lubrication
	If lubrication used at ones must be continious .
Pressure range	: min.2,5 bar - max. 10 bar
Temperature range	: - 10 ° C / + 60 ° C
Version	: 3/2 - 1/2" PILOT / SPRING N.C. or N.O.
Materials	
Covers	: Front cover al. 2011 natural colored anodized back cover Al. 2011 black anodized
spool	: AL. 6000 anodized 0,4 µm
Seals	: NBR
Body	: Natural anodized aluminium al. 2011
Orifice	: 13 mm
Mounting	: In any position
Flow rate	: 4.600 NI/ min at 6 bar
Cycle per min.	: 180 cycle / min (depends upon the signal inlet and outlet)
Vacuum	: Suitable

5/2 – 1/2" PILOT / SPRING

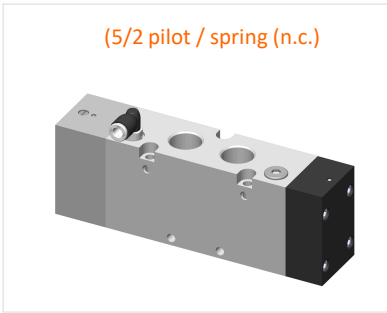


- ❑ Flow rate is 4.600 NI / min. at 6 bar
- ❑ Maximum working pressure is 10 bar
- ❑ Aluminium body
- ❑ Minimum working pressure is 2,5 bar
- ❑ Spool with spring return air pilot supported
- ❑ Suitable for non oily applications

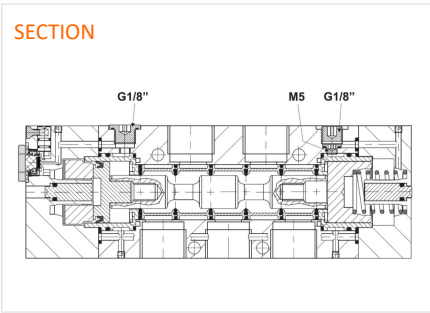
DRAWING



(5/2 pilot / spring (n.c.))



SECTION



ORDERING CODE for a VALVE

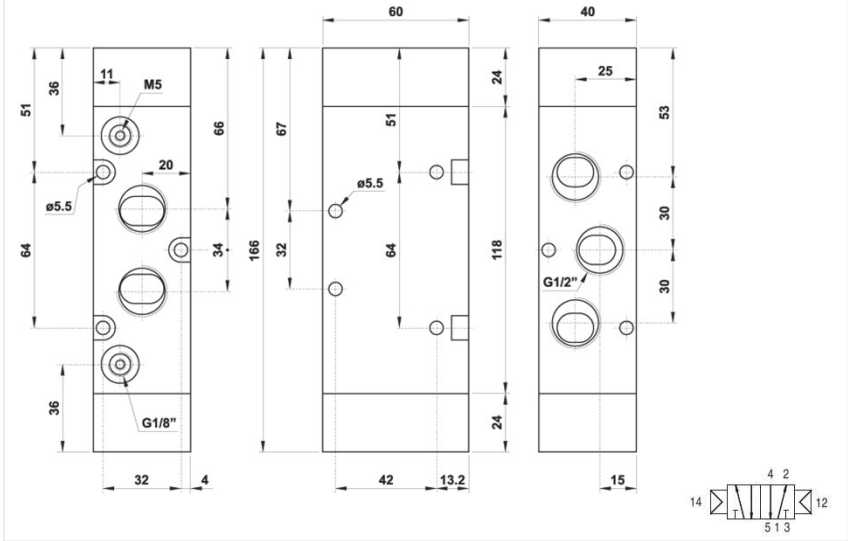
5/2 – 1/2" PILOT / SPRING (N.C.) : SME5212HY00M00

Fluid	: Compressed filtered air with or without lubrication
	If lubrication used at ones must be continious .
Pressure range	: min. 2,5 bar - max. 10 bar
Temperature range	: - 10 ° C / + 60 ° C
Version	: 5/2 - 1/2" PILOT / SPRING
Materials	
Covers	: Front cover al. 2011 natural colored anodized back cover Al. 2011 black anodized
spool	: Al. 6000 anodized 0,4 µm
Seals	: NBR
Body	: Natural anodized aluminium al. 2011
Orifice	: 13 mm
Mounting	: In any position
Flow rate	: 4.600 NI/ min at 6 bar
Cycle per min.	: 180 cycle / min (depends upon the signal inlet and outlet)
Vacuum	: Suitable

5/2 – 1/2" PILOT / PILOT

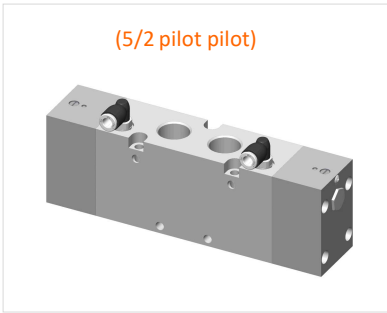


DRAWING

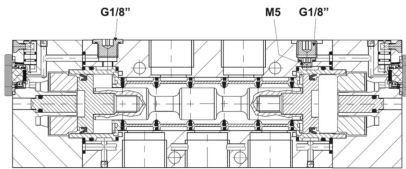


- ❑ Flow rate is 4.600 NI / min. at 6 bar
- ❑ Maximum working pressure is 10 bar
- ❑ Aluminium body
- ❑ Minimum working pressure is 1 bar
- ❑ Spool with spring return air pilot supported
- ❑ Suitable for non oily applications

(5/2 pilot pilot)



SECTION



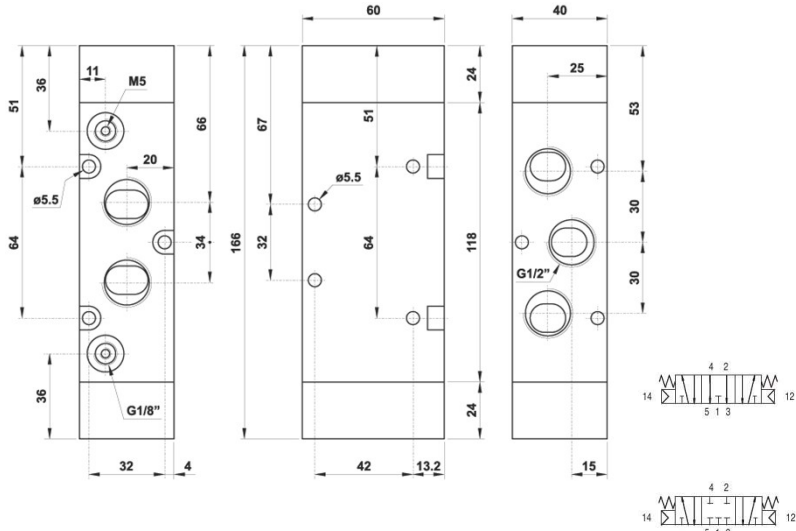
ORDERING CODE for a VALVE
5/2 – 1/2" PILOT / PILOT : SME5212HH00M00

Fluid	: Compressed filtered air with or without lubrication
	If lubrication used at ones must be continious .
Pressure range	: min.1 bar - max. 10 bar
Temperature range	: - 10 ° C / + 60 ° C
Version	: 5/2 - 1/2" PILOT / PILOT
Materials	
Covers	: Covers al. 2011 natural colored anodized
spool	: Al. 6000 anodized 0,4 µm
Seals	: NBR
Body	: Natural Anodized aluminium al. 2011
Orifice	: 13 mm
Mounting	: In any position
Flow rate	: 4.600 NI/ min at 6 bar
Cycle per min.	: 190 cycle / min (depends upon the signal inlet and outlet)
Vacuum	: Suitable

5/3 – 1/2" DOUBLE PILOT C.C / O.C.

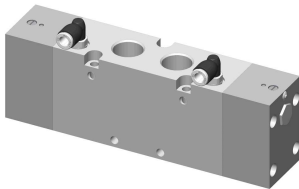


DRAWING

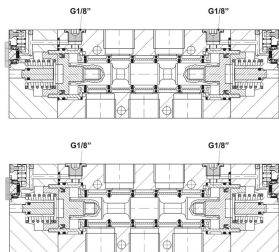


- ❑ Flow rate is 4.600 NI / min. at 6 bar
- ❑ Maximum working pressure is 10 bar
- ❑ Aluminium body
- ❑ Minimum working pressure is 1 bar
- ❑ Spool with spring return air pilot supported
- ❑ Suitable for non oily applications

(5/3 double pilot c.c. / o.c.)



SECTION



ORDERING CODE for a VALVE

- 5/3 – 1/2" DOUBLE PILOT C.C. : SME5312HH00MKM
- 5/3 – 1/2" DOUBLE PILOT O.C. : SME5312HH00MAM

Fluid : Compressed filtered air with or without lubrication
If lubrication used at ones must be continious .

Pressure range : min. 1 bar - max. 10 bar

Temperature range : - 10 ° C / + 60 ° C

Version : 5/3 - 1/2" DOUBLE PILOT C.C. / O.C.

Materials

- Covers : Covers al. 2011 natural colored anodized
- spool : Al. 6000 anodized 0,4 µm
- Seals : NBR
- Body : Anodized aluminium

Orifice : 13 mm

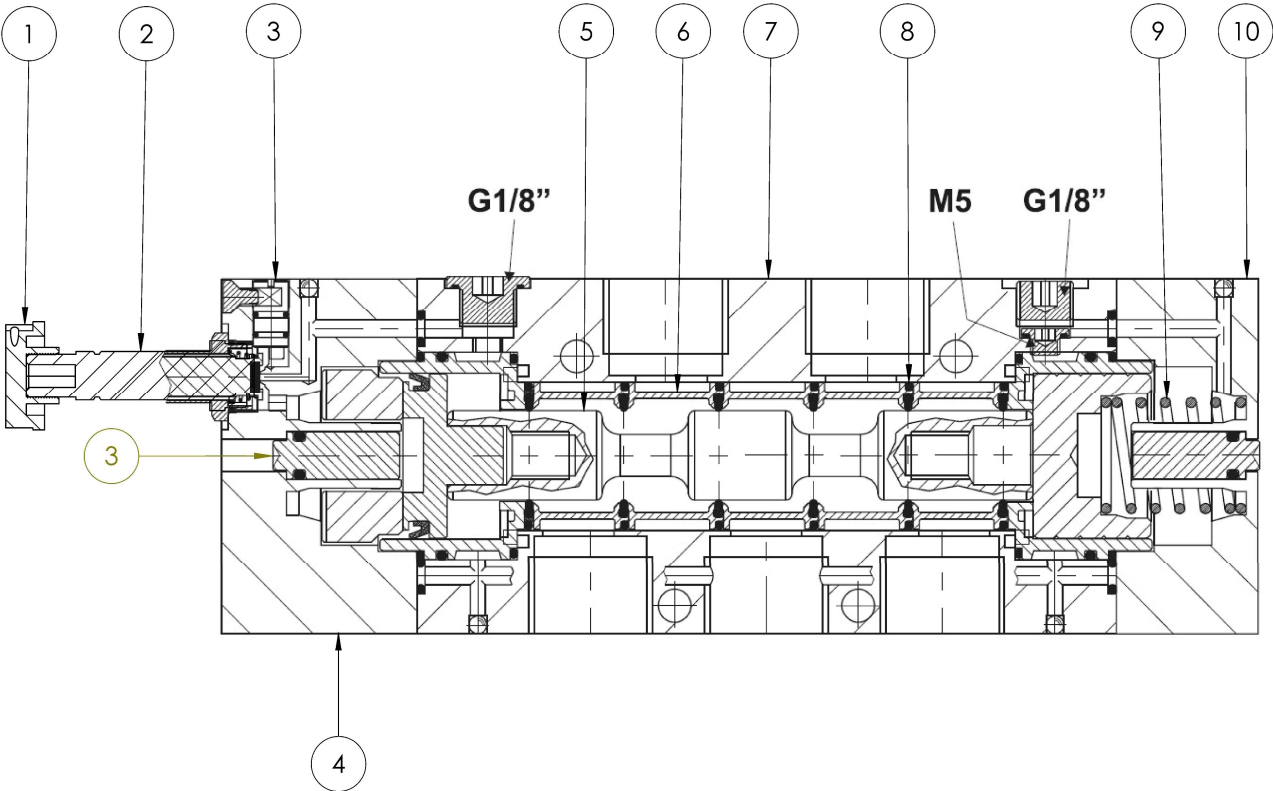
Mounting : In any position

Flow rate : 4.600 NI/ min at 6 bar

Cycle per min. : 150 cycle / min (from port 2 or port 4 to neutral position)

Vacuum : Suitable

INTERNAL DRAWING OF 1/2" 5/2 WAY VALVE



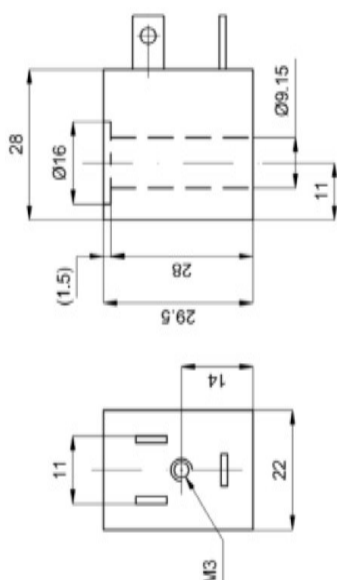
1	NUT	PLASTIC MATERIAL
2	ARMATURE	BRASS – STAINLESS STEEL SPECIALLY
3	MANUAL OVERRIDE	NICKEL – PLATED BRASS
4	HEAD	AL 11S ANODIZED
5	SPOOL	HARD ALUMINIUM ANODIZED
6	DISTANCERS	BRASS OT58
7	BODY	AL 11S ANODIZED
8	SEALS	HYDROGENATED NITRILE BUTADIENE RUBBER (HNBR)
9	SPRING	STAINLESS STEEL
10	BACK COVER	AL 11S BLACK ANODIZED

ACCESSORIES & SPARE PARTS



O- RING KIT
Cod. SMV1201

COILS

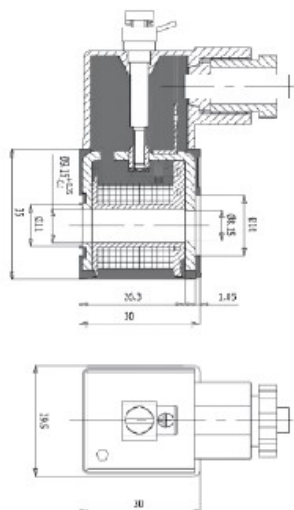


	For DC	For AC
Voltage tolerance	+ / - 10 %	+ / - 10 %
Electrical Consumption	3W	4.2 VA
Frequenzy	-	50 / 60 Hz.
Voltages	24	24 - 110 - 220
Duty cycle	% 100 ED	
Temperature range	- 15 °C / + 50 ° C	
Coil size	22 mm wide / suitable for 9 mm brass tube	
Terminal / Class	DIN 43650 B / F Class	

ORDERING CODES

SMB220900024DC	for 24 V DC
SMB220900024AC	for 24 V AC
SMB220900220AC	for 220 V AC
SMB220900110AC	for 110 V AC

EXPROOF COILS



	For DC	For AC
Voltage tolerance	+ / - 10 %	
Electrical Consumption	3W	3.2 VA
Frequenzy	-	50 / 60 Hz.
Voltage	24	220
Duty cycle	% 100 ED	
Temperature range	- 15 °C / + 50 ° C	
Coil size	30 mm wide / suitable for 9 mm brass tube	
Conformity	94 / 9 / EC (group 2)	
Cable length	3 Meter	
Certificate	ATEX II2 GD Eexm II T5	

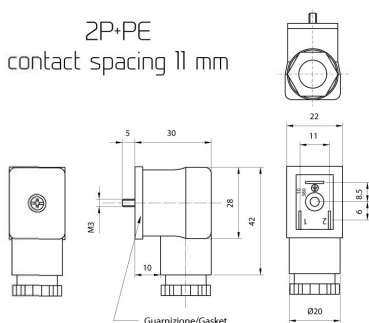
ORDERING CODES

SMB3009EX024DC	for 24 V DC
SMB3009EX022AC	for 220 V AC

SOCKETS



2P+PE
contact spacing 11 mm



	Standart	24 v / 220 v ac
Color	Black	transparent
Led color	-	Red
Protection	-	only with 24 v
Temperature range	- 15 °C / + 50 ° C	
Socket size	22 mm wide	
Terminal	DIN 43650 B	

ORDERING CODES

SMBS22LED220AC	for 22 mm 220 v ac led
SMBS22LED24V00	for 22 mm 24 v ac dc led
SMBS2200000000	for 22 mm standart socket

[illegible]



CYLINDERS



VALVES



FRL



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