



BUILDING FEATURES / CARATTERISTICHE COSTRUTTIVE

VESTA valves and solenoid valves with connections **G1/8, G1/4** and **G1/2** are available in the 3/2, 5/2 and 5/3 versions, with different forms of actuation (i.e. solenoid / pilot etc).

The choice of high quality materials and the technical solution adopted allows the valves to reach a good performance even in harsh environmental conditions. The spool, made by a light alloy aluminium, nickel treated by Niploy Process (see fig. **A**) to give its surface a smooth finish and a better resistance to aggressive agent. Its particular shape allows high nominal flow rates (see fig. **D**), and the combination with self lubricating lip rubber seals (see fig. **B**), reduce internal friction (see fig. **C**) and provides the valve with a long lasting durable life span.

Valves and Solenoid valves with connections **G1/8; G1/4** and **G1/2** can operate continuously without lubrication (see fig. **E**) and are sealed against working environment.

*Le valvole ed elettrovalvole VESTA con connessioni **G1/8; G1/4** e **G1/2** sono disponibili nelle versioni 3/2, 5/2 e 5/3 con più sistemi di attuazione e riposizionamento. Le soluzioni tecniche adottate ed i materiali impiegati hanno permesso di realizzare un prodotto che presenta elevate prestazioni funzionali anche in condizioni di impiego particolarmente gravose.*

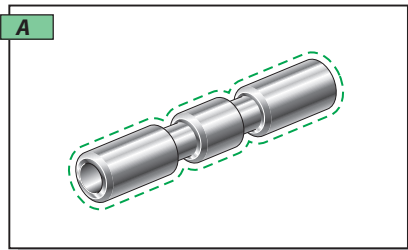
*La spola, costruita in lega leggera e progettata per consentire elevate portate nominali (**D**), viene trattata superficialmente al nickel (Niploy Process) (**A**) onde acquisire una durezza maggiore ed una più elevata resistenza agli agenti aggressivi.*

*La combinazione tra la spola e le guarnizioni in elastomero nitrilico con profilo del labbro antiusura (**B**), permette, accanto ad una riduzione degli attriti, un' alta velocità di scambio e cicli di lavoro elevati (**C**), garantendo una maggiore durata della meccanica interna.*

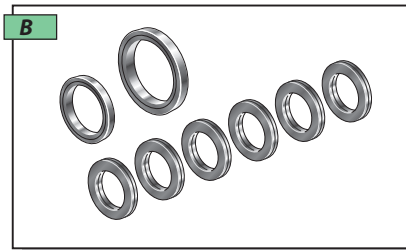
*Tutti i modelli di valvole con connessioni **G1/8; G1/4** e **G1/2** possono essere utilizzati anche in assenza di lubrificazione (**E**).*

*L'ermeticità di funzionamento verso l'ambiente di lavoro ne fa inoltre un prodotto adatto all'impiego in settori cosiddetti "difficili" (**F**).*

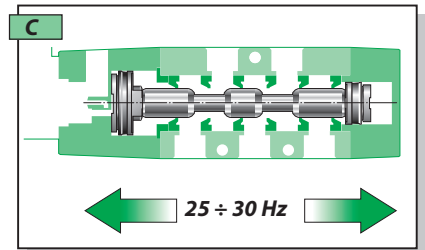
Nelle pagine che seguono tutte le caratteristiche funzionali di ciascuna valvola sono convalidate dal Dipartimento di Meccanica del Politecnico di Torino.



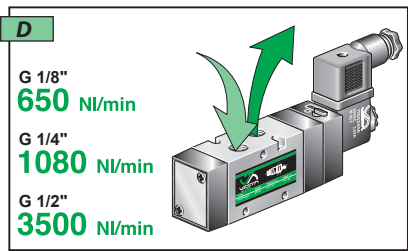
Light alloy spool with Niploy Process treated surface.
Spola in lega leggera con trattamento superficiale Niploy Process.



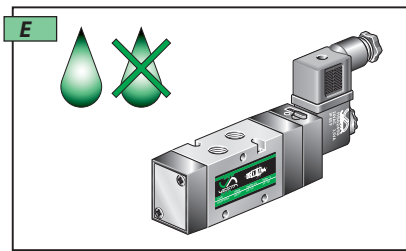
Self lubricating lip rubber seals.
Guarnizioni in elastomero nitrilico con profilo del labbro antiusura.



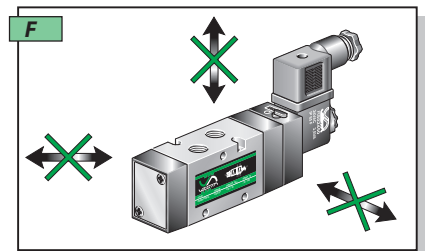
High working frequency.
Alta velocità di scambio per cicli di lavoro elevati.



High nominal air flow.
Alta portata nominale.



Possibility of operating continuously without lubrication.
Possibilità di funzionamento continuo privo di lubrificazione.



Protected against working environment (no spring return versions).
Protezione di funzionamento verso l'ambiente di lavoro (non nelle versioni con ritorno a molla).

WORKING PRINCIPLE / PRINCIPIO DI FUNZIONAMENTO

In the example here below, when the 5/2 valve **E52W1S018 - 02450** stands in the normal position, ports **4 - 5** and **1 - 2** are connected and the position is kept thanks to the pressure assured to the smallest piston (right side of the valve). When the valve is actuated, the same pressure is fed to the biggest piston. It's bigger surface create a force which allows to the spool to move and therefore to connect ports **4 - 1** and **2 - 3**.

In the mechanical spring version, the valve is kept in the normal position by a mechanical spring.

In the bistable versions, the position of the valve remains in its last switched state.

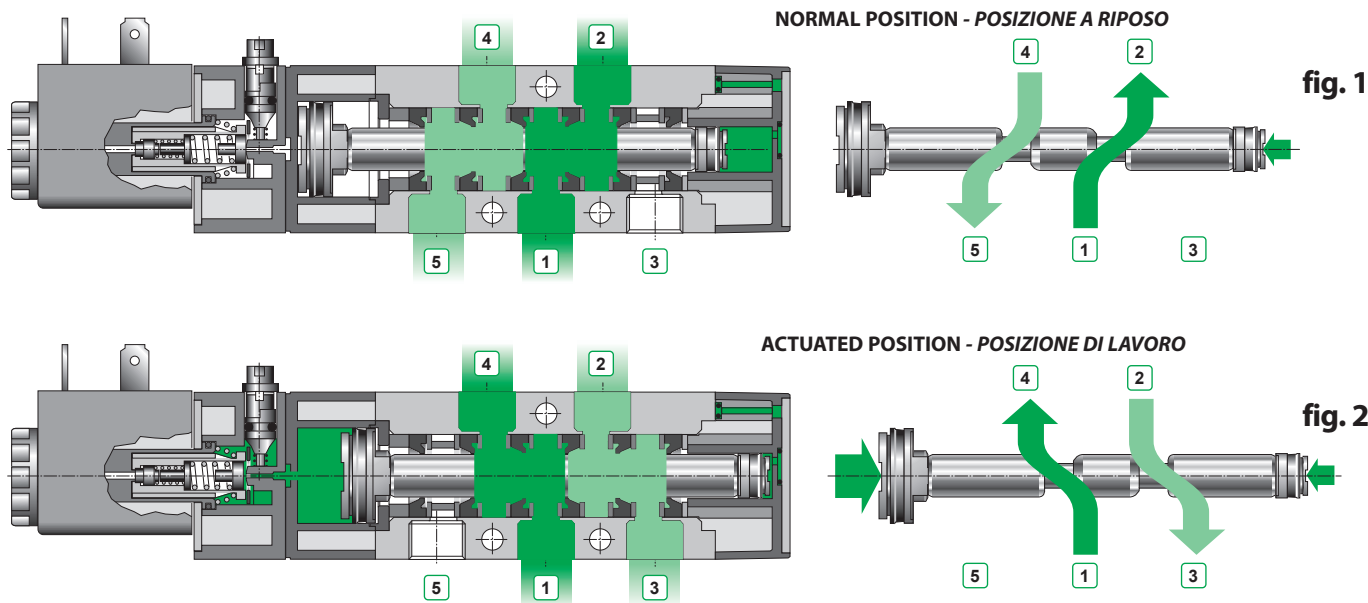
*Il principio di funzionamento del distributore 5/2 (nell'esempio la valvola a comando elettropneumatico e riposizionamento a molla pneumatica **E52W1S018 - 02450**) consiste nel mantenere costantemente in pressione il pistone di riposizionamento (fig. 1), utilizzando la fonte d'aria compressa presente nel condotto di alimentazione **1**, collegando le vie **1- 2** e **4 - 5**.*

*L'eccitazione del solenoide mette in comunicazione il condotto in pressione **1** con la camera dove è alloggiato il pistone di comando.*

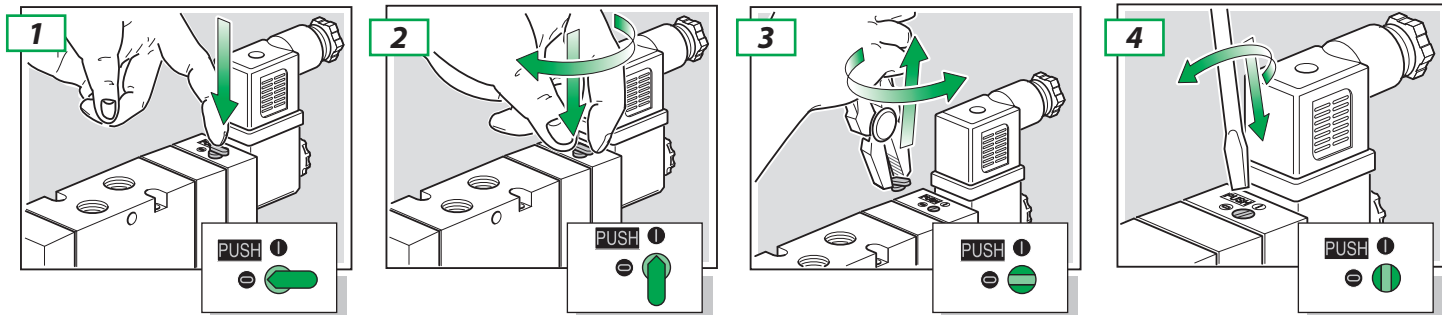
*Quest'ultimo, avendo un'area di spinta maggiore del pistone di riposizionamento, sposta la spola in modo tale da collegare i canali **1- 4** e **2- 3** (fig. 2).*

Diseccitando il solenoide si ripristina la posizione iniziale.

Nei sistemi bistabili (doppio comando elettropneumatico o doppio comando pneumatico) in assenza di segnale rimangono i collegamenti dell'ultimo azionamento.



MANUAL OVERRIDING / AZIONAMENTO COMANDO MANUALE



Push to actuated valve without locking. **Relise the button to get back to normal position.**

Per azionare la valvola, durante la fase di collaudo con pressione in linea senza collegamento elettrico, premere la leva del comando manuale. Rilasciare per ripristinare la condizione di riposo.

To active the valve permanently push the M/O (manual override) and rotate clockwise 90°.

To return to normal position, push the M/O again and turn 90° anticlockwise.

Per azionare la valvola in modo permanente premere la leva del comando manuale e ruotare in senso orario sino alla posizione 1. Ruotare in senso antiorario per ripristinare la condizione di riposo.

Should the M/O no longer be required, then turn the M/O anticlockwise until it breaks off.

Terminato il collaudo ruotare in senso antiorario la leva sino alla rottura.

Should the M/O be required after breaking off, then a screwdriver may be used.

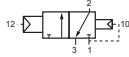
Per interventi successivi sul comando manuale usare un adeguato cacciavite ed operare come al punto 1 o 2.



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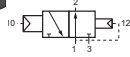
VALVES AND SOLENOID VALVES / VALVOLE ED ELETTROVALVOLE G1/8

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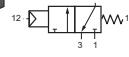
V32V1P618

SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN
COMANDO PNEUMATICO - MOLLA PNEUMATICA



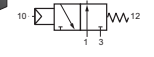
V32V1P918

SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN
COMANDO PNEUMATICO - MOLLA PNEUMATICA



V32V1P6M8

SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA

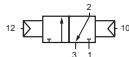


V32V1P9M8

SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA

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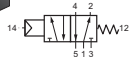
V32V2P018

DOUBLE PNEUMATIC PILOT
DOPPIO COMANDO PNEUMATICO



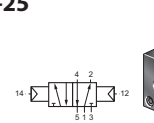
V52V1P018

SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN
COMANDO PNEUMATICO - MOLLA PNEUMATICA



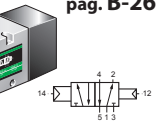
V52V1PM18

SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



V52V2P018

DOUBLE PNEUMATIC PILOT
DOPPIO COMANDO PNEUMATICO

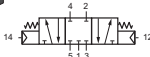


V52V2PD18

..... WITH DIFFERENTIAL
..... CON DIFFERENZIALE

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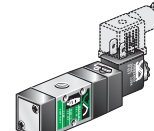
V53V2P618

DOUBLE PNEUMATIC PILOT - CENTER POSITION CLOSED
DOPPIO COMANDO PNEUMATICO - CENTRI CHIUSI



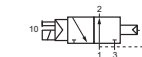
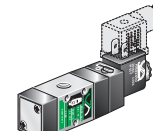
V53V2P918

DOUBLE PNEUMATIC PILOT - CENTER POSITION OPEN
DOPPIO COMANDO PNEUMATICO - CENTRI APERTI



E32W1S618 -

SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN
COMANDO ELETTROPNEUMATICO - MOLLA PNEUMATICA

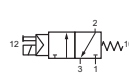
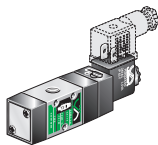


E32W1S918 -

SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN
COMANDO ELETTROPNEUMATICO - MOLLA PNEUMATICA

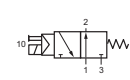
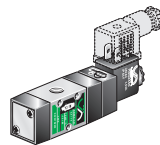
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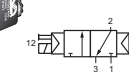
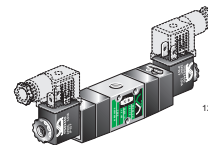
E32W1S6M8 -

SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



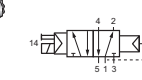
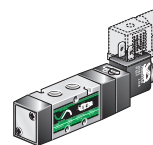
E32W1S9M8 -

SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



E32W2S018 -

DOUBLE SOLENOID VALVE
DOPPIO COMANDO ELETTROPNEUMATICO

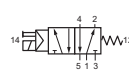
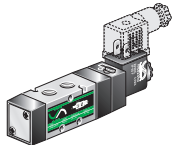


E52W1S018 -

SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN
COMANDO ELETTROPNEUMATICO - MOLLA PNEUMATICA

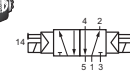
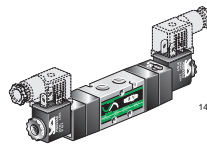
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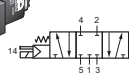
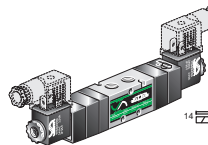
E52W1SM18 -

SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



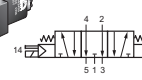
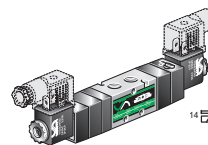
E52W2S018 -

DOUBLE SOLENOID VALVE
DOPPIO COMANDO ELETTROPNEUMATICO



E53W2S618 -

DOUBLE SOLENOID VALVE - CENTER POSITION CLOSED
DOPPIO COMANDO ELETTROPNEUMATICO - CENTRI CHIUSI



E53W2S918 -

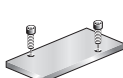
DOUBLE SOLENOID VALVE - CENTER POSITION OPEN
DOPPIO COMANDO ELETTROPNEUMATICO - CENTRI APERTI

COMPONENTS FOR ASSEMBLING AND SPARE PARTS / COMPONENTI PER L'ASSEMBLAGGIO E RICAMBI G1/8

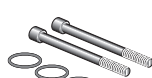
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PCH 018

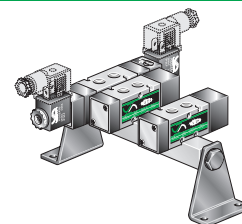


KM 018



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RTCOV.18
SBCOV.18
SACOV.18

SERIE **G1/8**

**VALVES AND SOLENOID VALVES "E" SERIES
VALVOLE ED ELETTROVALVOLE SERIE "E"**

COMMON FEATURES VALVES G1/8 SERIES / CARATTERISTICHE COMUNI VALVOLE SERIE G1/8

G1/8

Port connections	G1/8
Pilot connections	G1/8
Flow section	Ø 6 mm
Environment temperature range	-10 °C ÷ +50 °C
Temperature range of medium	0 °C ÷ +40 °C
Lubrication	Not required
Medium	Filtered air
Reference temperature	+20 °C
Reference pressure	6 bar

3/2 VALVES AND SOLENOID VALVES

Fixing.....	n°3 holes Ø 4,25 manifold system see p. 30.
Nominal air flow	650 NI/min
Fluid conductance "C".....	2,7 NI/s bar
Critical pressure ratio "b".....	0,203

5/2 VALVES AND SOLENOID VALVES

Fixing.....	n°3 holes Ø 4,25 manifold system pp. 30 ÷ 32.
Nominal air flow.....	650 NI/min
Fluid conductance "C".....	2,7 NI/s bar
Critical pressure ratio "b".....	0,203

5/3 VALVES AND SOLENOID VALVES

Fixing.....	n°3 holes Ø 4,25 manifold system pp. 30 ÷ 32.
Nominal air flow.....	530 NI/min
Fluid conductance "C".....	2,17 NI/s bar
Critical pressure ratio "b".....	0,236

Connessioni di lavoro	G1/8
Connessioni operatori.....	G1/8
Diametro nominale.....	Ø 6 mm
Temperatura ambiente.....	-10 °C ÷ +50 °C
Temperatura fluida.....	0 °C ÷ +40 °C
Lubrificazione.....	Non necessaria
Fluido.....	Aria filtrata
Temperatura nominale.....	+20 °C
Pressione nominale.....	6 bar

VALVOLE ED ELETTROVALVOLE 3/2

Fixaggio.....	n°3 fori laterali Ø 4,25 su collettore vedi p. 32
Portata nominale.....	650 NI/min
Valore conduttanza "C".....	2,7 NI/s bar
Rapporto critico delle pressioni "b".....	0,203

VALVOLE ED ELETTROVALVOLE 5/2

Fixaggio	su base vedi pp. 30 ÷ 31	n°3 fori laterali Ø 4,25 su collettore vedi p. 32
Portata nominale		650 NI/min
Valore conduttanza "C".....		2,7 NI/s bar
Rapporto critico delle pressioni "b".....		0,203

VALVOLE ED ELETTROVALVOLE 5/3

Fixaggio	su base vedi pp. 30 ÷ 31	n°3 fori laterali Ø 4,25 su collettore vedi p. 32
Portata nominale		530 NI/min
Valore conduttanza "C".....		2,17 NI/s bar
Rapporto critico delle pressioni "b".....		0,236

PNEUMATIC VALVES FEATURES / CARATTERISTICHE VALVOLE PNEUMATICHE

Size Taglia	Code Codice	Nominal pilot pressure (bar) Pressione di pilotaggio nominale (bar)	Nominal max frequency (Hz) Frequenza max nominale (Hz)	Operating pressure range (bar) Pressione di esercizio (bar)
G 1/8"	V32V1P618	4,5 bar (10 bar)	31 Hz	2,2 ÷ 10 bar
	V32V1P918	4,5 bar (10 bar)	31 Hz	2,2 ÷ 10 bar
	V32V1P6M8	2,7 bar	13 Hz	1,5 ÷ 10 bar
	V32V1P9M8	2,7 bar	13 Hz	1,5 ÷ 10 bar
	V32V2P018	1,3 bar	43 Hz	1,2 ÷ 10 bar
	V52V1P018	4,5 bar (10 bar)	30 Hz	2,5 ÷ 10 bar
	V52V1PM18	2,7 bar	13 Hz	1,5 ÷ 10 bar
	V52V2P018	1,3 bar	42 Hz	1,5 ÷ 10 bar
	V52V2PD18	1,3 bar	42 Hz	1,5 ÷ 10 bar
	V53V2P618	3,2 bar	9 Hz	1,5 ÷ 10 bar
	V53V2P918	3,2 bar	9 Hz	1,5 ÷ 10 bar

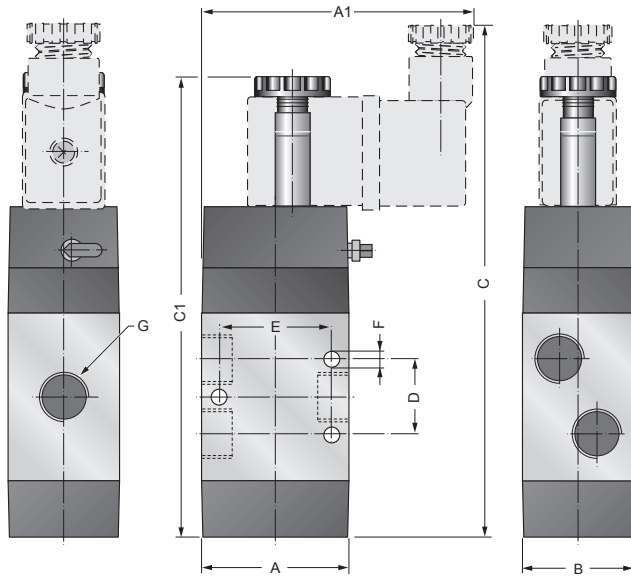
SOLENOID VALVES FEATURES / CARATTERISTICHE ELETTROVALVOLE

Size Taglia	Code Codice	Average actining response (ms) Tempo medio di risposta in eccitazione (ms)		Average disactioning response (ms) Tempo medio di risposta in diseccitazione (ms)		Nominal max frequency (Hz) Frequenza max nominale (Hz)		Operating pressure range (bar) Pressione di esercizio (bar)
		AC	DC	AC	DC	AC	DC	
G 1/8"	E32W1S618	17 ms	19 ms	20 ms	24 ms	29 Hz	18 Hz	2,2 ÷ 10 bar
	E32W1S918	17 ms	19 ms	20 ms	24 ms	29 Hz	18 Hz	2,2 ÷ 10 bar
	E32W1S6M8	17 ms	19 ms	21 ms	34 ms	13 Hz	13 Hz	3,2 ÷ 10 bar
	E32W1S9M8	17 ms	19 ms	21 ms	34 ms	13 Hz	13 Hz	3,2 ÷ 10 bar
	E32W2S018	10 ms	12 ms	10 ms	12 ms	31 Hz	23 Hz	1,2 ÷ 10 bar
	E52W1S018	10 ms	17 ms	20 ms	24 ms	29 Hz	17 Hz	2,5 ÷ 10 bar
	E52W1SM18	17 ms	19 ms	21 ms	34 ms	13 Hz	13 Hz	3,2 ÷ 10 bar
	E52W2S018	10,5 ms	12,5 ms	10,5 ms	12,5 ms	31 Hz	22 Hz	1,5 ÷ 10 bar
	E53W2S618	16 ms	19 ms	16 ms	19 ms	9 Hz	9 Hz	3 ÷ 10 bar
	E53W2S918	16 ms	19 ms	16 ms	19 ms	9 Hz	9 Hz	3 ÷ 10 bar



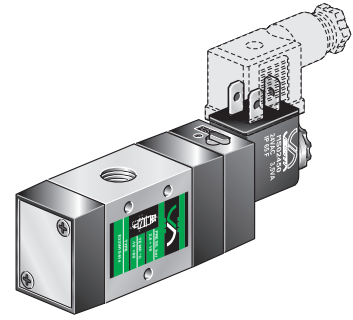
SOLENOID VALVE / 3/2

SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN
 COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO MOLLA PNEUMATICA

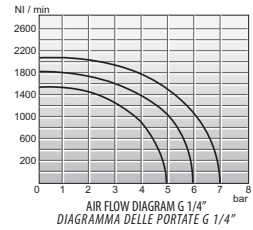
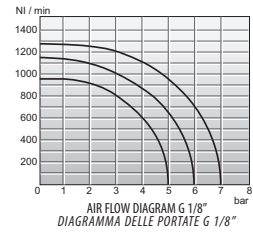


Size Taglia	A	A1	B	C	C1	D	E	ØF	G
1/8	30	63	26	133	119	18	23	4,25	G1/8
1/4	40	73	30	140	125	20	30	4,25	G1/4
1/2	60	60	40	181	167	40	50	5,5	G1/2

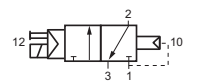
E32W1S.1. -



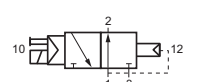
DIAGRAMS / DIAGRAMMI



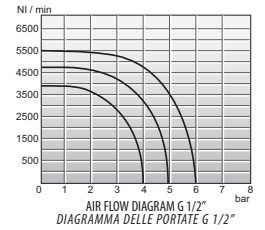
SIMBOLS / SIMBOLI



E32W1S61. -.....

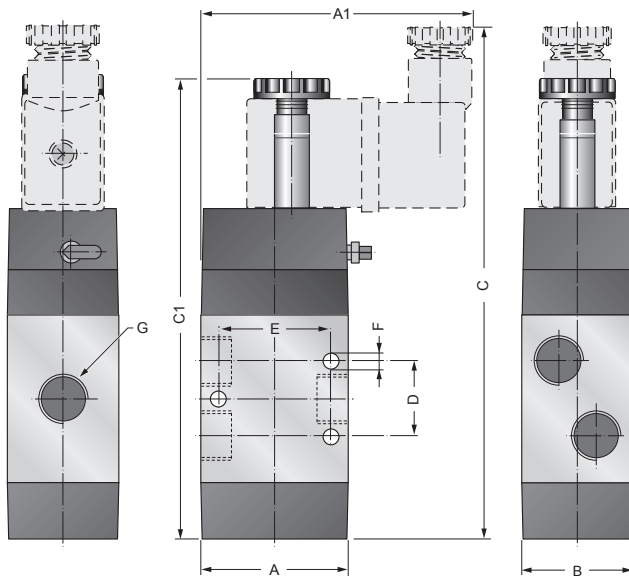


E32W1S91. -.....



SOLENOID VALVE / ELETTROVALVOLA 3/2

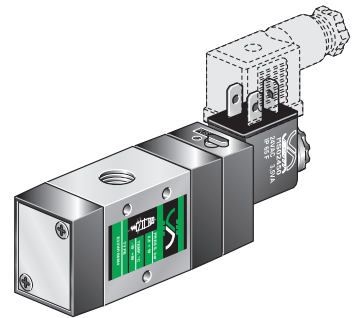
SINGLE SOLENOID VALVE - SPRING RETURN
 COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO MOLLA MECCANICA



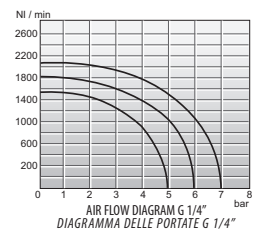
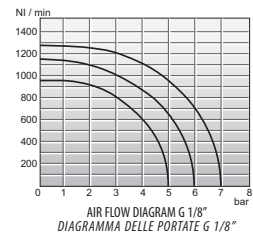
(*) ATEX versions see / Versioni ATEX vedi P.

Size Taglia	A	A1	B	C	C1	D	E	ØF	G
1/8	30	63	26	133	119	18	23	4,25	G1/8
(*) 1/4	40	73	30	140	125	20	30	4,25	G1/4
(*) 1/2	60	60	40	172	158	40	50	5,5	G1/2

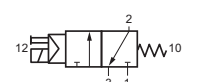
E32W1S.M. -



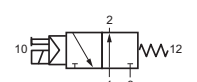
DIAGRAMS / DIAGRAMMI



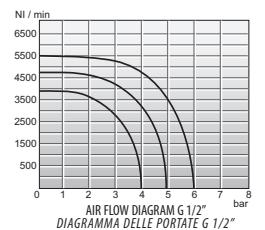
SIMBOLS / SIMBOLI



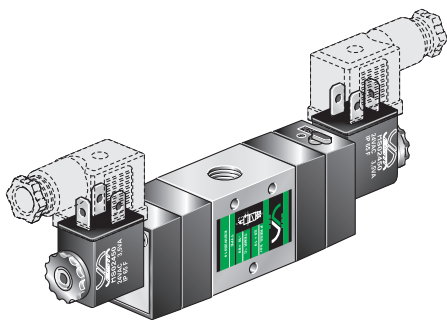
E32W1S6M -.....



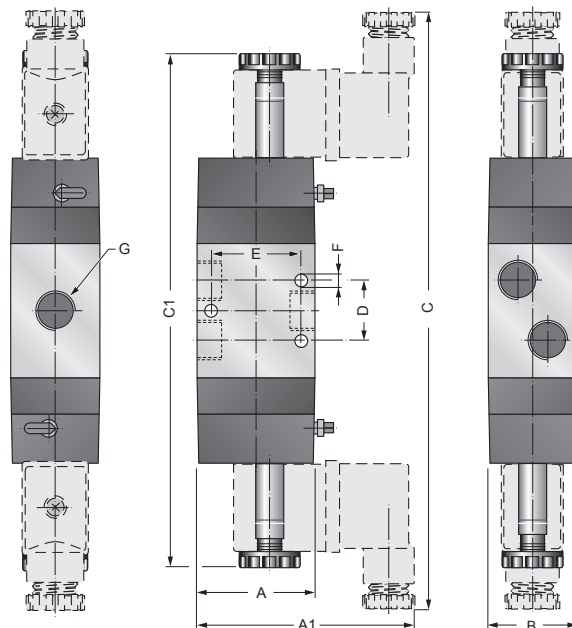
E32W1S9M -.....



E32W2S01. -

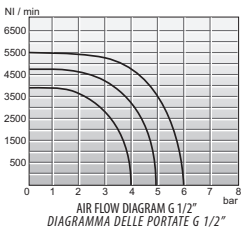
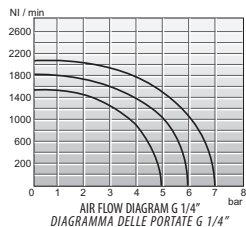
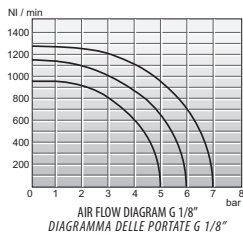
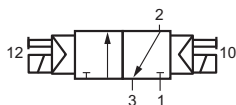


SOLENOID VALVE / 3/2
DOUBLE SOLENOID VALVE / DOPPIO COMANDO ELETTROPNEUMATICO



SIMBOL / SIMBOLO

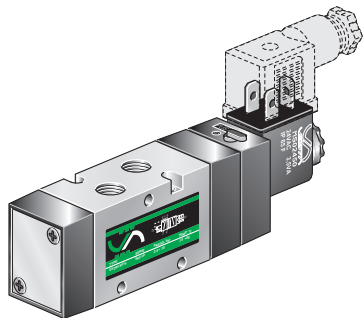
DIAGRAMS / DIAGRAMMI



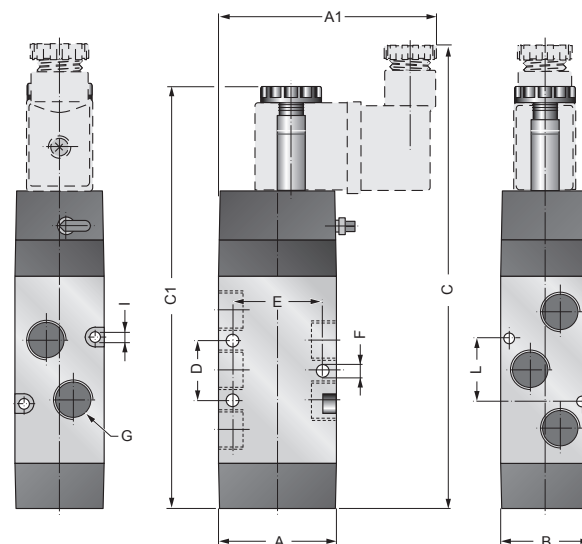
(*) ATEX versions see / Versioni ATEX vedi P. B-113

Size Taglia	A	A1	B	C	C1	D	E	ØF	G
1/8	30	63	26	197	169	18	23	4,25	G1/8
(*) 1/4	40	73	30	203	175	20	30	4,25	G1/4
(*) 1/2	60	60	40	240	212	40	50	5,5	G1/2

E52W1S.1. -

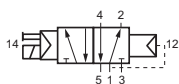


SOLENOID VALVE / 5/2
SINGLE SOLENOID VALVE / COMANDO ELETTROPNEUMATICO

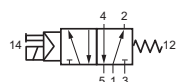


SIMBOLS / SIMBOLI

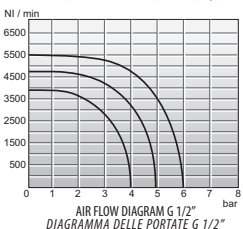
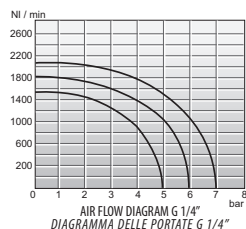
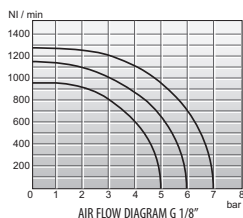
DIAGRAMS / DIAGRAMMI



E52W1S01. -



(*) **E52W1SM1. -**



(*) ATEX versions see / Versioni ATEX vedi P. B-113

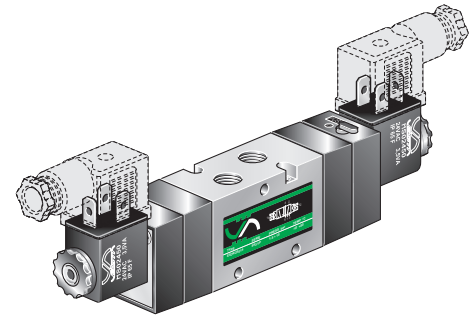
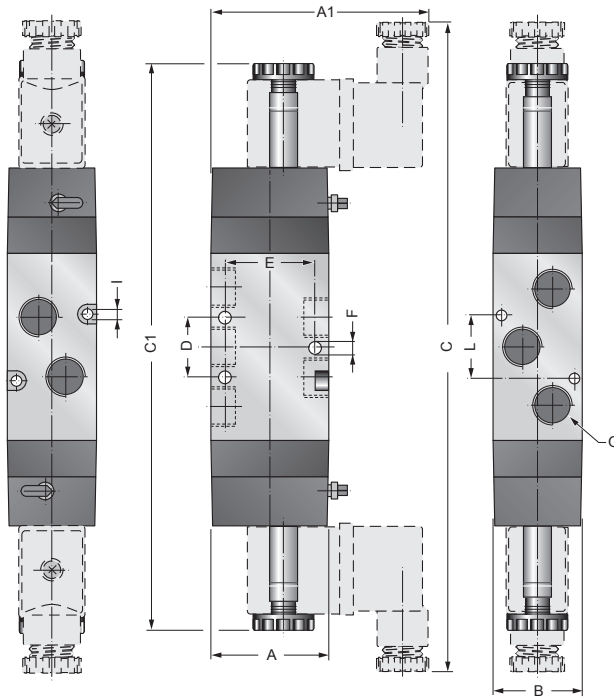
Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L
1/8	30	63	26	150	136	18	23	4,25	G1/8	3,25	28,6
(*) 1/4	40	73	30	158	143	20	30	4,25	G1/4	3,25	21
(*) 1/2	60	60	40	221	207	40	50	5,5	G1/2	—	—



SOLENOID VALVE / 5/2

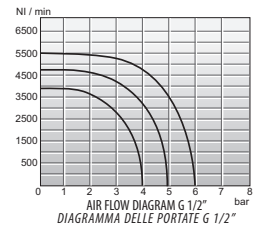
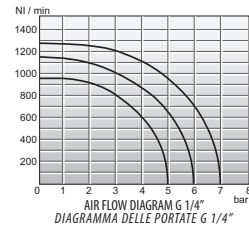
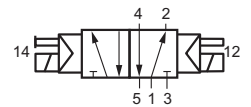
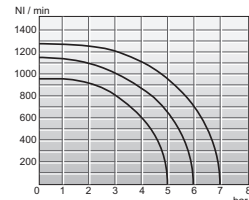
DOUBLE SOLENOID VALVE / *DOPIO COMANDO ELETTROPNEUMATICO*

E52W2S01. -



DIAGRAMS / DIAGRAMMI

SIMBOL / SIMBOLO



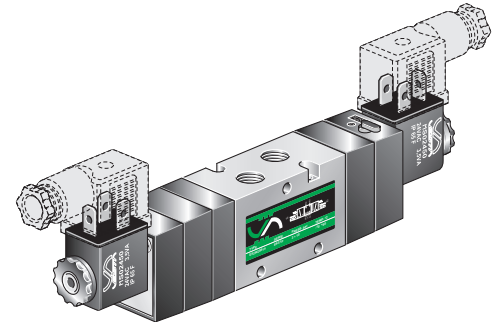
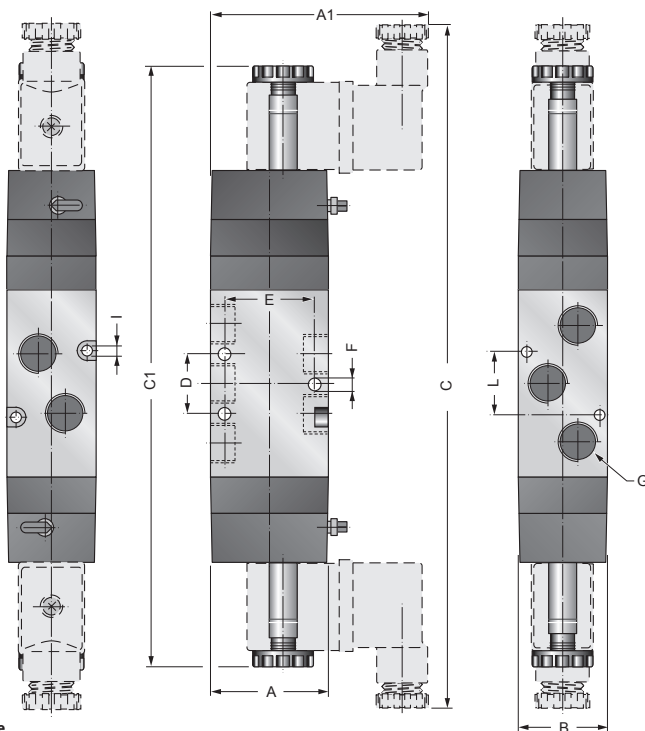
Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L
1/8	30	63	26	215	186	18	23	4,25	G1/8	3,25	28,6
(*) 1/4	40	73	30	220	191	20	30	4,25	G1/4	3,25	21
(*) 1/2	60	60	40	280	252	40	50	5,5	G1/2	—	—

(*) ATEX versions see P. B-113
Versioni ATEX vedi P. B-113

SOLENOID VALVE / 5/3

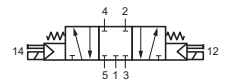
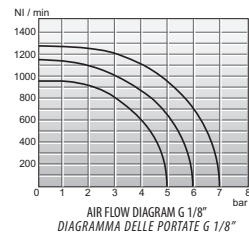
DOUBLE SOLENOID VALVE / *DOPIO COMANDO ELETTROPNEUMATICO*

E53W2S . 1. -

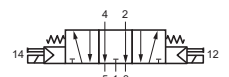


DIAGRAMS / DIAGRAMMI

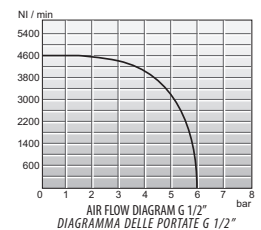
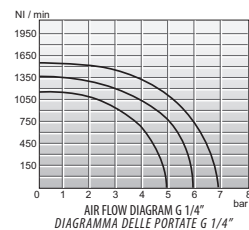
SIMBOLS / SIMBOLI



E53W2S61 -



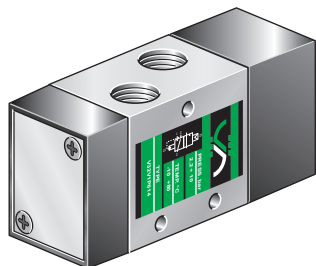
E53W2S91 -



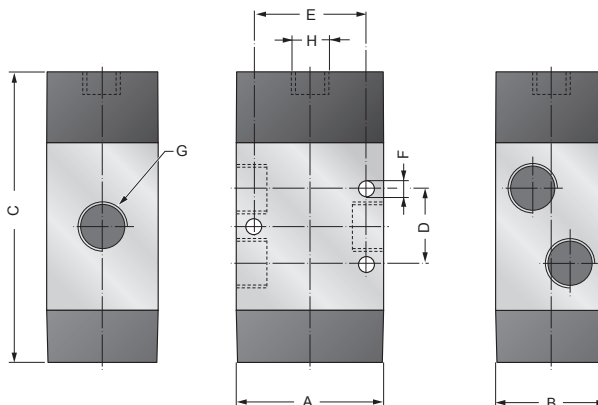
Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L
1/8	30	63	26	227	198	18	23	4,25	G1/8	3,25	28,6
1/4	40	73	30	232	203	20	30	4,25	G1/4	3,25	21
1/2	60	60	40	280	252	40	50	5,5	G1/2	—	—

(*) ATEX versions see P. B-113
Versioni ATEX vedi P. B-113

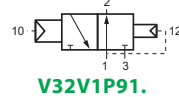
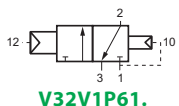
V32V1P . 1.



VALVE / VALVOLA 3/2
SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN
COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA



SIMBOLS / SIMBOLI



DIAGRAMS / DIAGRAMMI

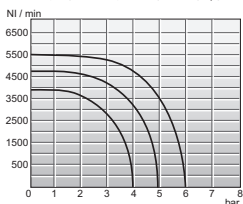
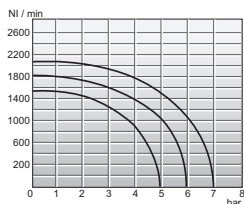
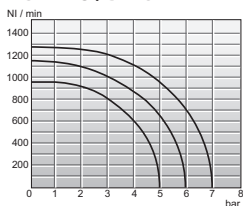
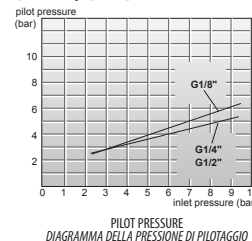
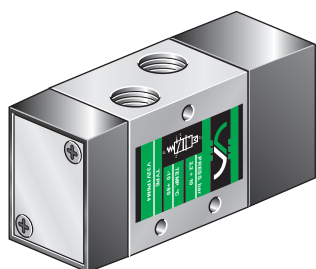


DIAGRAM / DIAGRAMMA

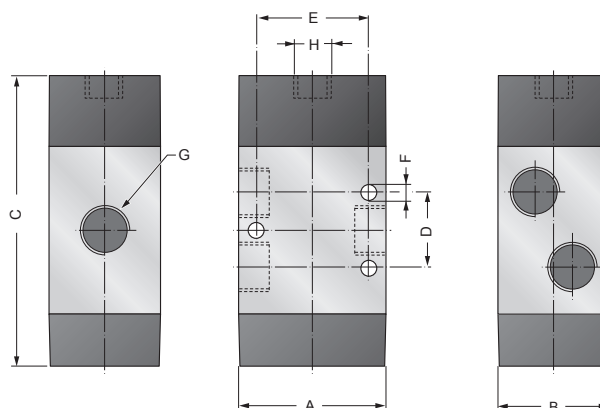


Size Taglia	A	B	C	D	E	ØF	G	H
G1/8	30	26	74	18	23	4,25	G1/8	G1/8
G1/4	40	30	81,5	20	30	4,25	G1/4	G1/8
G1/2	60	40	127	40	50	5,5	G1/2	G1/8

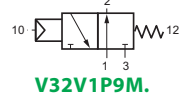
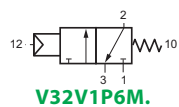
V32V1P . M.



VALVE / VALVOLA 3/2
SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA MECCANICA



SIMBOLS / SIMBOLI



DIAGRAMS / DIAGRAMMI

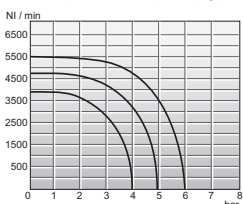
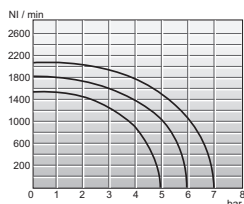
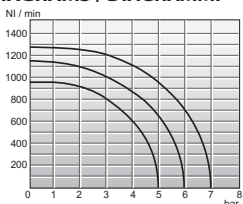
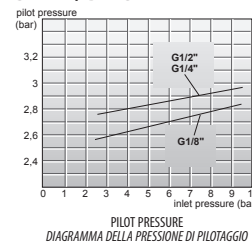


DIAGRAM / DIAGRAMMA



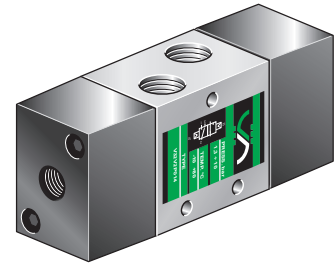
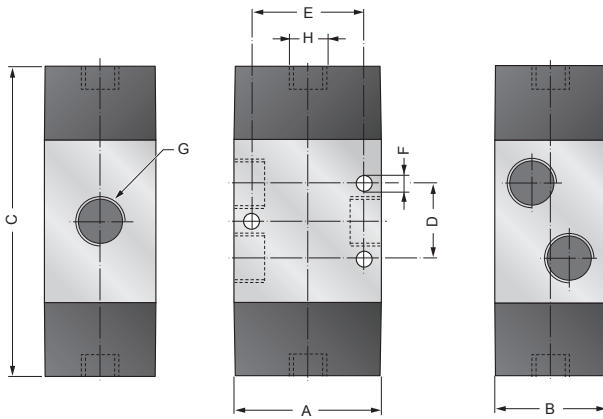
(*) ATEX versions see / Versioni ATEX vedi P. B-113

Size Taglia	A	B	C	D	E	ØF	G	H
G1/8	30	26	74	18	23	4,25	G1/8	G1/8
(*) G1/4	40	30	81,5	20	30	4,25	G1/4	G1/8
(*) G1/2	60	40	118	40	50	5,5	G1/2	G1/8



VALVE / VALVOLA 3/2
DOUBLE PNEUMATIC PILOT / *DOPIO COMANDO PNEUMATICO*

V32V2P01.



DIAGRAMS / DIAGRAMMI

SIMBOL / SIMBOLO

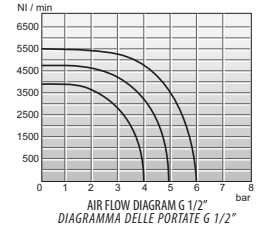
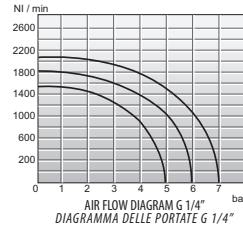
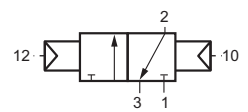
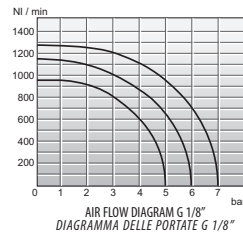
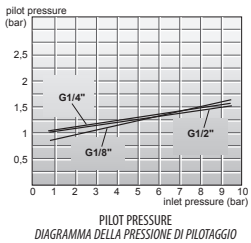


DIAGRAM / DIAGRAMMA

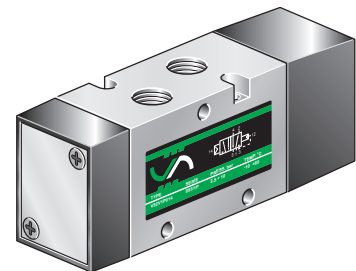
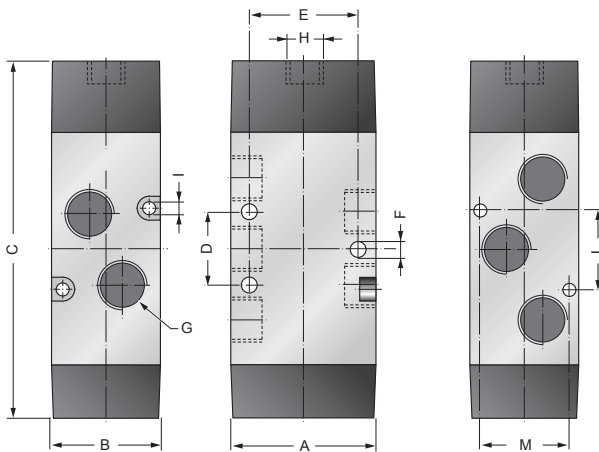


(*) ATEX versions see / *Versioni ATEX vedi P. B-113*

Size Taglia	A	B	C	D	E	ØF	G	H
G1/8	30	26	79	18	23	4,25	G1/8	G1/8
(*) G1/4	40	30	87	20	30	4,25	G1/4	G1/8
(*) G1/2	60	40	132	40	50	5,5	G1/2	G1/8

VALVE / VALVOLA 5/2
SINGLE PNEUMATIC PILOT / *COMANDO PNEUMATICO*

V52V1P . 1.



DIAGRAMS / DIAGRAMMI

SIMBOLS / SIMBOLI

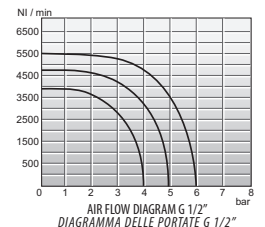
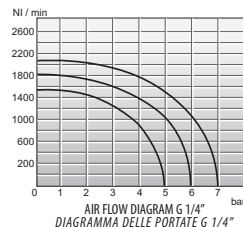
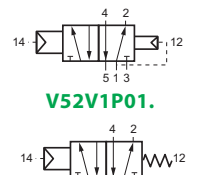
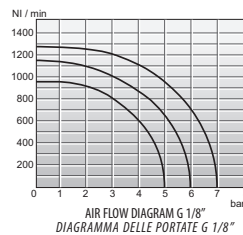
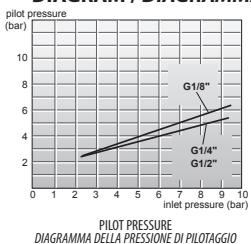


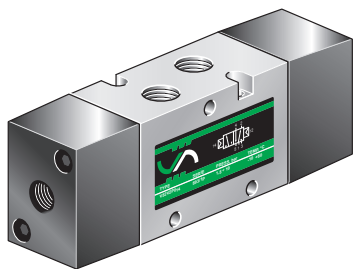
DIAGRAM / DIAGRAMMA



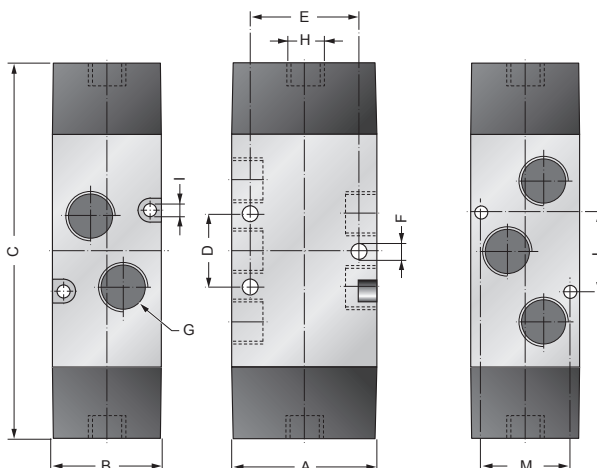
(*) ATEX versions see / *Versioni ATEX vedi P. B-113*

Size Taglia	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	30	26	91	18	23	4,25	G1/8	G1/8	3,25	28,6	20
(*) 1/4	40	30	100	20	30	4,25	G1/4	G1/8	3,25	21	24,6
(*) 1/2	60	40	167	40	50	5,5	G1/2	G1/8	—	—	—

V52V2P . 1.



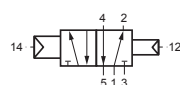
VALVE / VALVOLA 5/2
DOUBLE PNEUMATIC PILOT / DOPPIO COMANDO PNEUMATICO



SIMBOLS / SIMBOLI

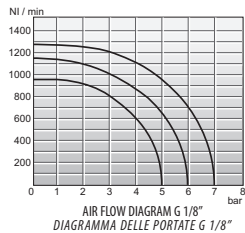


V52V2P01.

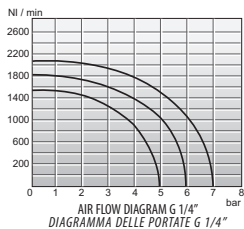


V52V2PD1.

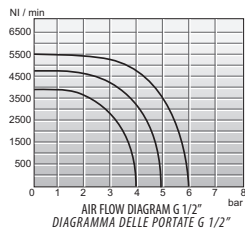
DIAGRAMS / DIAGRAMMI



AIR FLOW DIAGRAM G 1/8"
DIAGRAMMA DELLE PORTATE G 1/8"

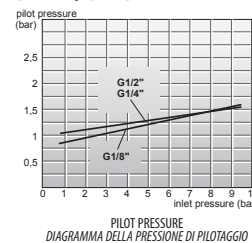


AIR FLOW DIAGRAM G 1/4"
DIAGRAMMA DELLE PORTATE G 1/4"



AIR FLOW DIAGRAM G 1/2"
DIAGRAMMA DELLE PORTATE G 1/2"

DIAGRAM / DIAGRAMMA

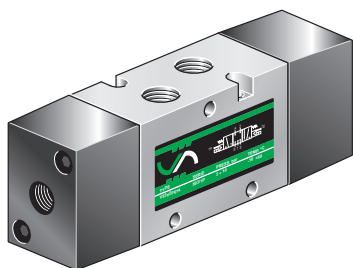


PILOT PRESSURE
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

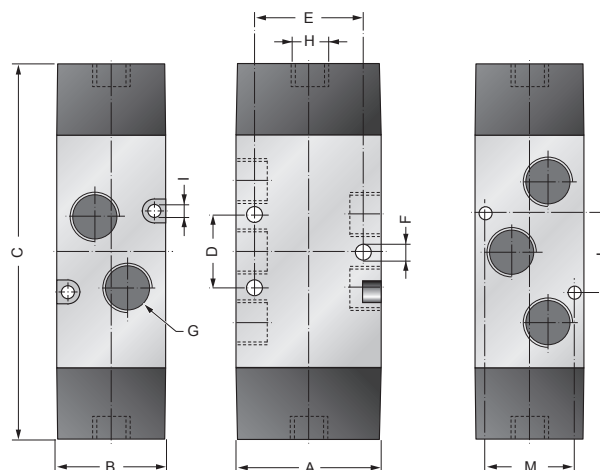
(*) ATEX versions see / Versioni ATEX vedi P. B-113

Size Taglia	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	30	26	96	18	23	4,25	G1/8	G1/8	3,25	28,6	20
(*) 1/4	40	30	105	20	30	4,25	G1/4	G1/8	3,25	21	24,6
(*) 1/2	60	40	172	40	50	5,5	G1/2	G1/8	—	—	—

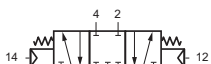
V53V2P . 1.



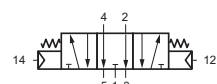
VALVE / VALVOLA 5/3
DOUBLE PNEUMATIC PILOT / DOPPIO COMANDO PNEUMATICO



SIMBOLS / SIMBOLI

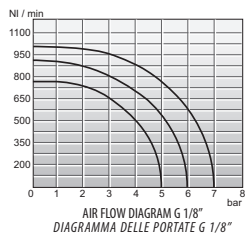


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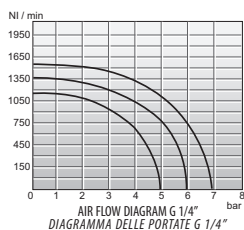


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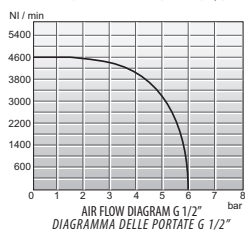
DIAGRAMS / DIAGRAMMI



AIR FLOW DIAGRAM G 1/8"
DIAGRAMMA DELLE PORTATE G 1/8"

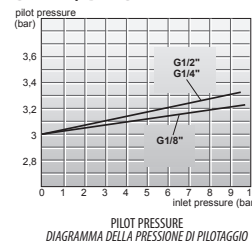


AIR FLOW DIAGRAM G 1/4"
DIAGRAMMA DELLE PORTATE G 1/4"



AIR FLOW DIAGRAM G 1/2"
DIAGRAMMA DELLE PORTATE G 1/2"

DIAGRAM / DIAGRAMMA



PILOT PRESSURE
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

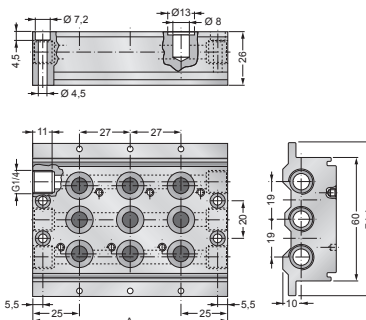
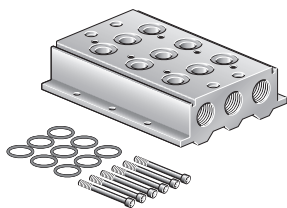
(*) versions see / Versioni vedi P. B-113

Size Taglia	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	30	26	108	18	23	4,25	G1/8	G1/8	3,25	28,6	20
1/4	40	30	105	20	30	4,25	G1/4	G1/8	3,25	21	24,6
1/2	60	40	192	40	50	5,5	G1/2	G1/8	—	—	—



ME .18

DOUBLE INLET MANIFOLD FOR ASSEMBLING VALVES AND SOLENOID VALVES G1/8
BASE A DOPPIO INGRESSO PER ASSEMBLAGGIO VALVOLE ED ELETTROVALVOLE G1/8



- Completely of gasket and screw for assembling valves on manifold .
- Nella confezione sono presenti le guarnizioni e le viti per fissare le valvole alla base.

CODES / CODICI

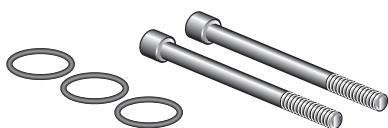
Code Codice	A A	Place Posti
ME 218	77	2
ME 318	104	3
ME 418	131	4
ME 518	158	5
ME 618	185	6
ME 718	212	7
ME 818	239	8
ME 918	266	9
ME 1018	293	10

SEALS KIT AND ACCESSORIES FOR VALVES AND SOLENOID VALVES G 1/8 AND G 1/4 RICAMBI ED ACCESSORI PER VALVOLE ED ELETTROVALVOLE G 1/8 E G 1/4

KM 018 (G1/8)

KM 014 (G1/4)

ASSEMBLING KIT
KIT DI ASSEMBLAGGIO

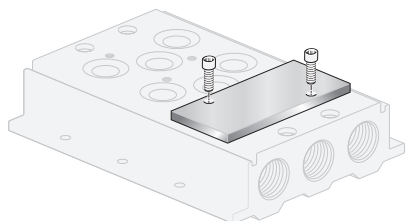


- Subbases are supplied with assembling screws and seals.
Kit of screws and seals can be supplied also as spare parts with the code **KM 018** and **KM 014**.
- Le basi sono complete delle viti e delle guarnizioni necessarie per il fissaggio delle valvole.
Tuttavia può essere fornito come ricambio il kit **KM 018** per il fissaggio di singole valvole da G1/8 oppure **KM 014** per il fissaggio di singole valvole da G1/4

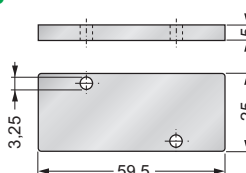
PCH 018 (G1/8)

PCH 014 (G1/4)

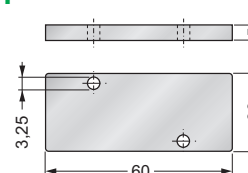
PLUG-FLAT
CHIUSURA POSTO INUTILIZZATO



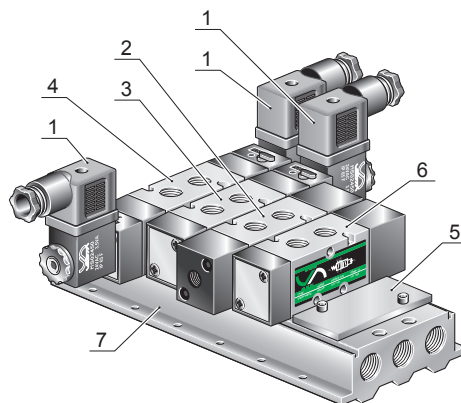
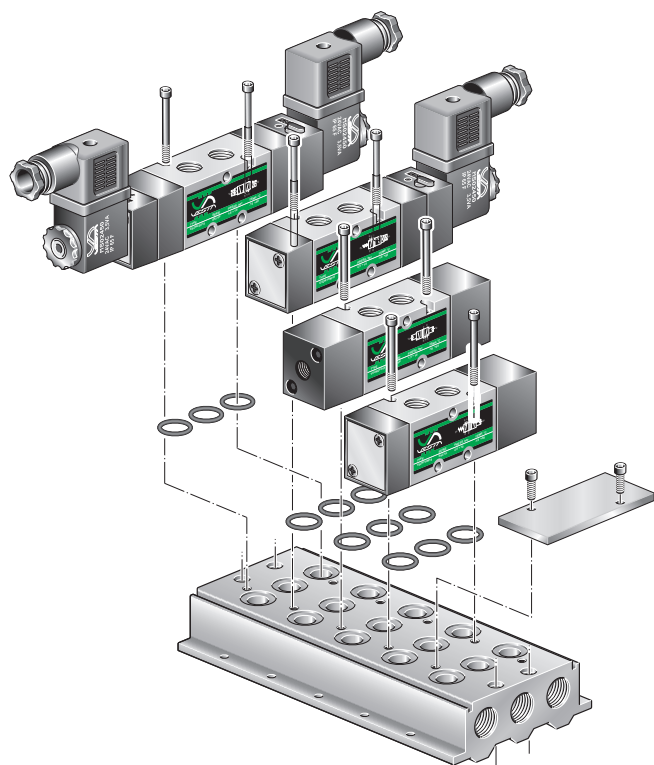
PCH 018



PCH 014



**EXAMPLE OF MODULAR ASSEMBLING VALVES AND SOLENOID VALVES G1/8
ESEMPIO DI ASSEMBLAGGIO MODULARE DI VALVOLE ED ELETTROVALVOLE G1/8**

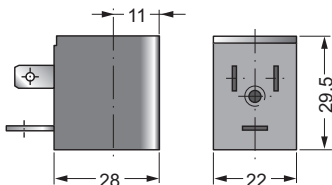
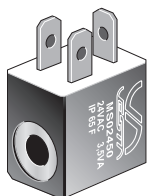


Components needed for assembling manifold on the picture.
Esempio di componenti necessari a realizzare la batteria raffigurata.

Position Posizione	Quantity Quantità	Code Codice
1	N° 3	CEP/1
2	N° 1	V52V2P018
3	N° 1	E52W1S018 - 02450
4	N° 1	E52W2S018 - 02450
5	N° 1	PCH 018
6	N° 1	V52V1PM18
7	N° 1	ME 518

MS

COIL
SOLENOIDE



CODES / CODICI

Ordination code Codice ordinazione	Voltage Tensione
MS01200	12 V DC
MS02400	24 V DC
MS02450	24 V 50/60Hz AC
MS11050 (*)	110 V 50/60Hz AC
MS22050 (*)	220 V 50/60Hz AC

(*) Please see page / Vedi pag. **B-37**

TECHNICAL FEATURES

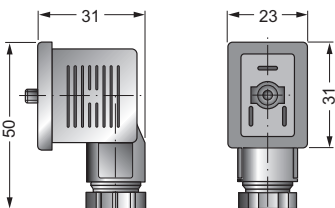
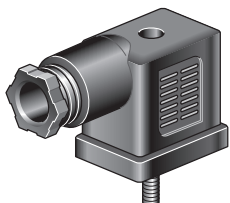
Standard voltage	12, 24 V DC 24, 110, 220 V AC (50/60 Hz)
Solenoid characteristics	2,5 Watt in DC; 3,5 VA in AC
Tension	± 10%
Ambient temperature range	-20 °C ÷ +50 °C
Degree of	Class F
Expy	Incapsulated

CARATTERISTICHE TECNICHE

Tensione standard	12, 24 V DC 24, 110, 220 V AC (50/60 Hz)
Prestazioni bobina	2,5 Watt in DC; 3,5 VA in AC
Tensione nominale	± 10% a bobina calda
Limiti di temperatura ambiente	-20 °C ÷ +50 °C
Protezione	IP 65 secondo IEC 144 con connettore e guarnizioni montate
Bobina	Classe F, Filo rame classe 200 °C
Sovrastampatura	Resina epossidica

CEP-1

SOLENOID CONNECTOR
CONNETTORE



CODES / CODICI

Description Descrizione	Code Codice	Tension Tensione
Universal connector Connettore universale	CEP-1	All tension Tutte le tensioni
Connector with led Connettore con led	CEP-1 L 10 / 50 CEP-1 L 70 / 250	10/50 V AC / DC 70/250 V AC / DC
Connector with led and varistor Connettore con led e varistore	CEP-1 LV 24 CEP-1 LV 110 CEP-1 LV 220	24 V AC / DC 110 V AC / DC 220 V AC / DC

TECHNICAL FEATURES

Wire connection	With screwed terminals
Gland thread	PG 9
Number of poles	2 Poles + earth
Housing colour	Black, transparent in the led version.

CARATTERISTICHE TECNICHE

Connessione cavi	Con morsetti a vite
Filettatura passacavo	PG 9
N° Poli	2 Poli + terra
Colori connettore	Nero, trasparente nelle versioni con led.



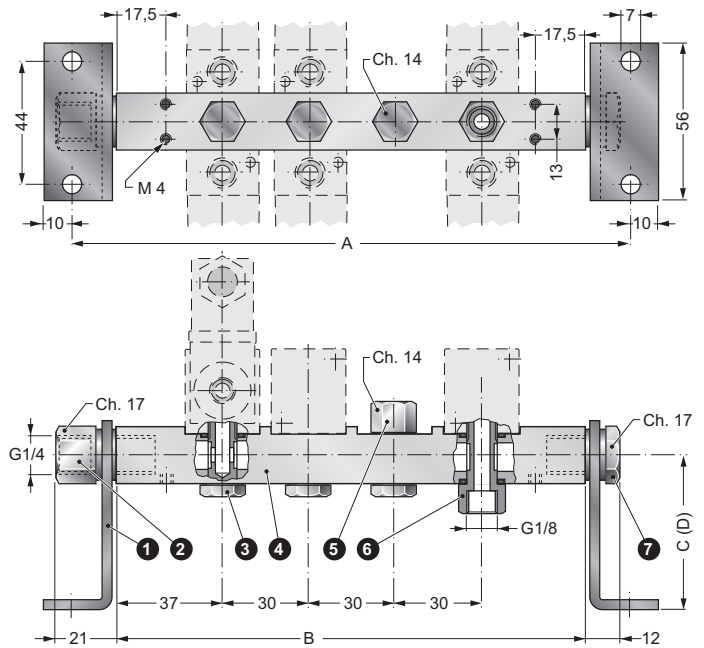
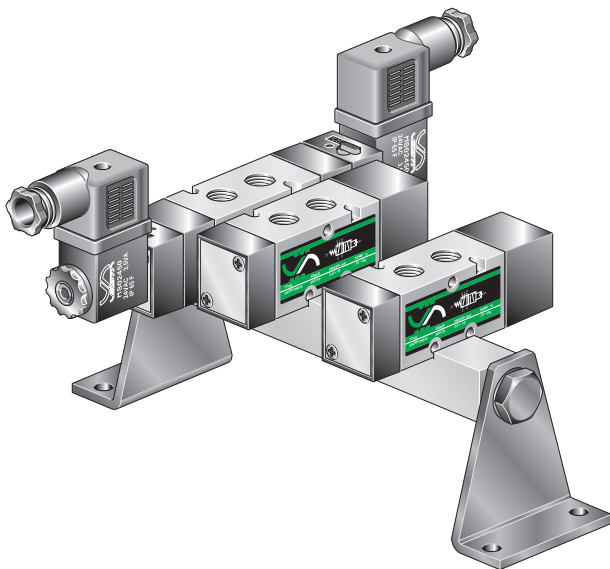
MANIFOLD ASSEMBLING VALVES AND SOLENOID VALVES G1/8 ASSEMBLAGGIO SU COLLETTORE DELLE VALVOLE ED ELETTROVALVOLE G 1/8

RTCOV . 18

SBCOV . 18

SACOV . 18

MANIFOLDS WITH COMMON INLET AIR FOR G1/8 VALVES
COLLETTORI PER VALVOLE FILETTATE G1/8



CODES / CODICI

Code Codice	A	B	C	D	Place Posti
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ASSEMBLED MANIFOLD RT018 WITH FITTINGS
COLLETTORE RT018 COMPLETO DI RACCORDI

RTCOV218	.....	-	.....	104	.....	-	.....	-	.....	2
RTCOV318	.....	-	.....	134	.....	-	.....	-	.....	3
RTCOV418	.....	-	.....	164	.....	-	.....	-	.....	4
RTCOV518	.....	-	.....	194	.....	-	.....	-	.....	5

ASSEMBLED MANIFOLD RT018 WITH FITTINGS AND LOW SUPPORTS SB018
COLLETTORE RT018 COMPLETO DI RACCORDI E SUPPORTI BASSI SB018

SBCOV218	.....	134	.....	104	.....	72	.....	-	.....	2
SBCOV318	.....	164	.....	134	.....	72	.....	-	.....	3
SBCOV418	.....	194	.....	164	.....	72	.....	-	.....	4
SBCOV518	.....	224	.....	194	.....	72	.....	-	.....	5

ASSEMBLED MANIFOLD RT018 WITH FITTINGS AND HIGH SUPPORTS SA018
COLLETTORE RT018 COMPLETO DI RACCORDI E SUPPORTI ALTI SA018

SACOV218	.....	134	.....	104	.....	-	.....	125	.....	2
SACOV318	.....	164	.....	134	.....	-	.....	125	.....	3
SACOV418	.....	194	.....	164	.....	-	.....	125	.....	4
SACOV518	.....	224	.....	194	.....	-	.....	125	.....	5

Position Posizione	Code Codice	Description Descrizione
1	SB018 (ref. C) SA018 (ref. D)	Low supports mounted "C" / Supporto basso "C" High supports mounted "D" / Supporto alto "D"
2	RFS18	Fixing supports fitting with inlet air Raccordo fissaggio supporto con connessione
3	RT018	Fixing valve fitting Raccordo fissaggio valvola
4	COV218 COV318 COV418 COV518	Manifold 2 valves / Collettore 2 valvole Manifold 3 valves / Collettore 3 valvole Manifold 4 valves / Collettore 4 valvole Manifold 5 valves / Collettore 5 valvole
5	TF018	Closed fitting Tappo chiusura raccordo
6	RTP18	Fixing valve fitting with inlet air Raccordo di fissaggio valvola passante
7	RC018	Fixing supports fitting Raccordo di chiusura collettore

Maximum numbers of valves depends on: air consumption, number of valves contemporary in use user's air flow.
Fitting and supports are supplied with washers

Il numero massimo di valvole dipende dal consumo totale d'aria, da quante valvole vengono azionate contemporaneamente e dalla portata degli utilizzi collegati a valle. I raccordi di fissaggio valvole e supporti vengono forniti completi di rondelle di tenuta.



INSTRUCTIONS FOR USE OF THE FOLLOWING VESTA PRODUCTS

IL PRESENTE MANUALE DI USO E MANUTENZIONE È VALIDO PER I SEGUENTI PRODOTTI VESTA:

COILS SINGLES OR ASSEMBLED ON VALVES / SOLENOIDI SINGOLI O ASSEMBLATI SU ELETTROVALVOLE:

MS11050, MS22050, CS11050, CS22050, SCN11050, SCN22050

Please pay attention to the following Vesta products:

Coil and connector offer protection from dust and water to IP65 only when correctly installed with the fixing screw and rubber gasket which are supplied as standard (grommet, coil seal, "O" ring).

Prescrizioni di montaggio per preservare il grado di protezione IP65

Per preservare il grado di protezione IP65 del collegamento elettrico è necessario eseguire il montaggio nel seguente modo:

- Prima di effettuare il collegamento elettrico dei cavi al connettore infilare nel cavo stesso il pressacavo avvitando il serracavo sul connettore.
- Montare la guarnizione bobina fra bobina e connettore, quindi fissare il connettore alla bobina con l'apposita vite, avvitandola adeguatamente.
- Montare quindi la bobina sulla valvola posizionando l'anello di tenuta (OR) nell'apposita sede della bobina.

Ground connection

Ground connection must be secure and adequate.

Messa a terra

La bobina prevede il morsetto a terra che deve essere collegato opportunamente all'impianto di messa a terra dell'installazione che deve essere realizzata a regola d'arte.

Electrical connection

When choosing the cable for electrical connections, take into account the location and environment of the installation (ex. Following the CEI 60204-1 standard).

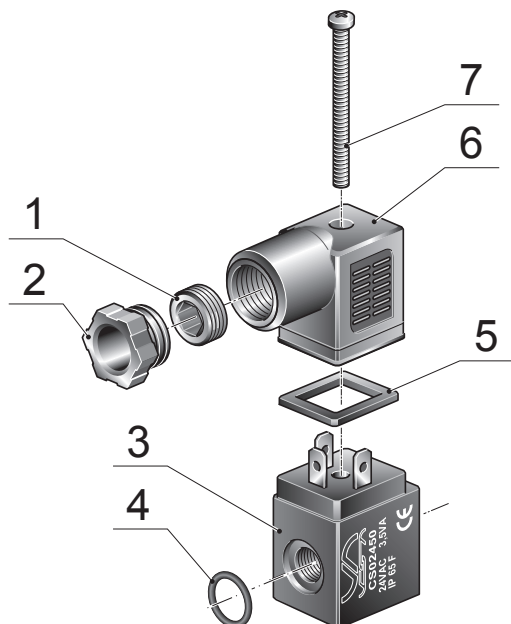
Collegamento elettrico

I conduttori utilizzati per il collegamento devono essere scelti e montati a regola d'arte tenuto conto dell'ambiente e delle condizioni di utilizzo nonché delle caratteristiche elettriche di impiego (tensione e corrente di esercizio). Si consiglia di seguire, ove applicabile, la pertinente normativa applicabile (ad es. CEI EN 60204-1).

Should the above instructions not be followed to the letter Vesta Automation will not be hold responsible.

L'installatore e l'utilizzatore sono tenuti ad attenersi scrupolosamente alle indicazioni impartite.

Qualsiasi omissione solleva Vesta Automation s.r.l. da ogni responsabilità e danno conseguenti.



Coils and accessories for solenoid valves.
Solenoidi ed accessori per elettrovalvole.

Position Posizione	Description Descrizione
1	Grommet / Pressacavo
2	Gland nut / Serracavo
3	Solenoid coil / Bobina
4	O-Ring / OR
5	Coil seal / Guarnizione bobina
6	Connector / Connettore
7	Fixing screw / Vite