



## 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 to 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.*

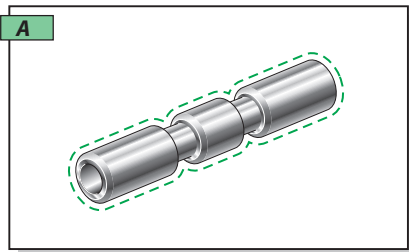
*La spola, costruita in lega leggera e progettata per consentire elevate portate nominali (**D**), viene trattata superficialmente al nickel (Niploy Process) (**A**) onde acquisire una durezza maggiore ed una più elevata resistenza agli agenti aggressivi.*

*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.*

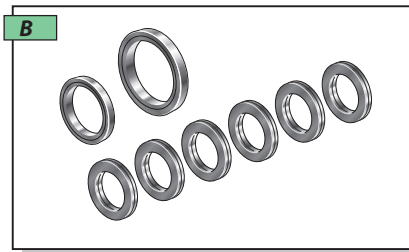
*Tutti i modelli di valvole con connessioni **G1/8**; **G1/4** e **G1/2** possono essere utilizzati anche in assenza di lubrificazione (**E**).*

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

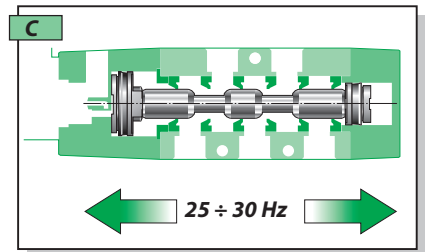
*Nelle pagine che seguono tutte le caratteristiche funzionali di ciascuna valvola sono convalidate dal Dipartimento di Meccanica del Politecnico di Torino.*



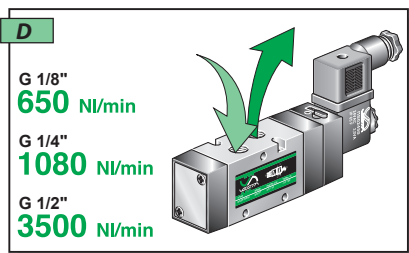
Light alloy spool with Niploy Process treated surface.  
*Spola in lega leggera con trattamento superficiale Niploy Process.*



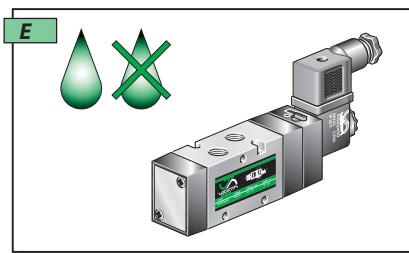
Self lubricating lip rubber seals.  
*Guarnizioni in elastomero nitrilico con profilo del labbro antiusura.*



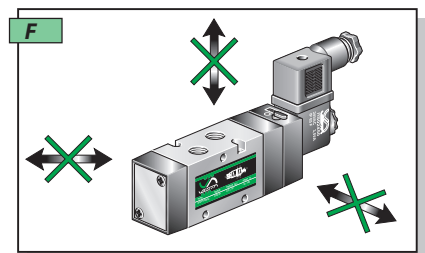
High working frequency.  
*Alta velocità di scambio per cicli di lavoro elevati.*



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.

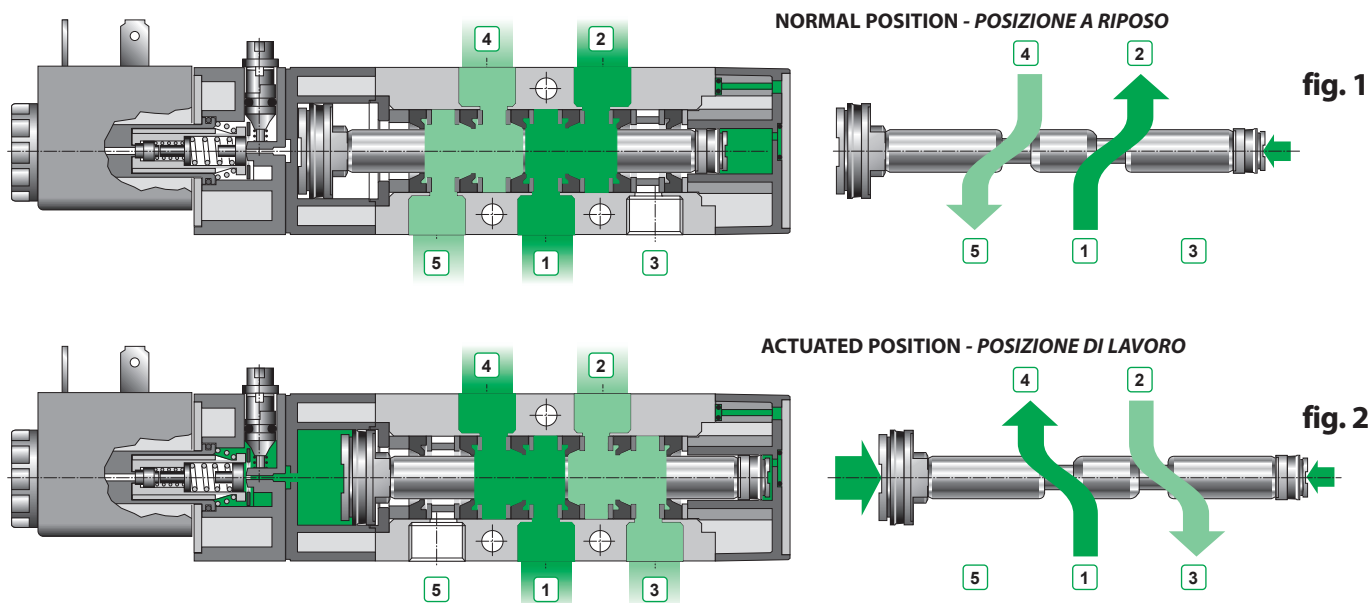
*Il principio di funzionamento del distributore 5/2 (nell'esempio la valvola a comando elettropneumatico e riposizionamento a molla pneumatica **E52W1S018 - 02450**) consiste nel mantenere costantemente in pressione il pistone di riposizionamento ( fig. 1 ), utilizzando la fonte d'aria compressa presente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

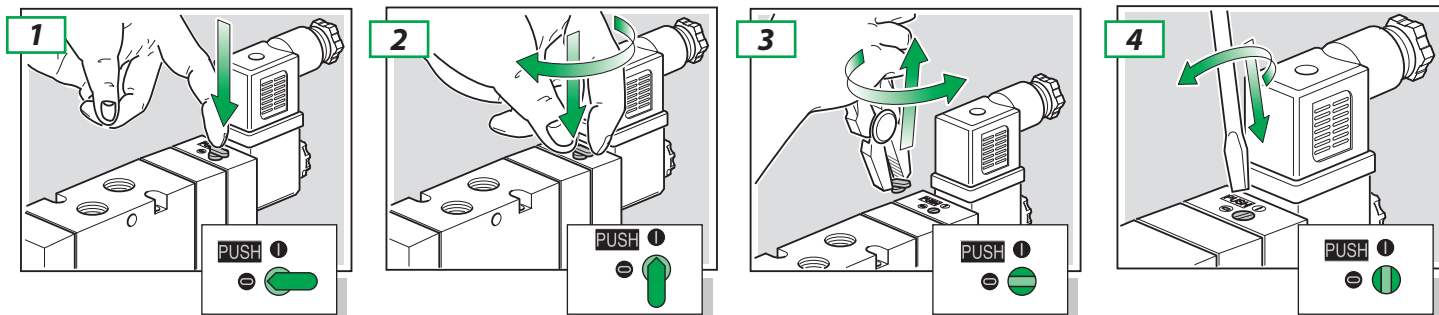
*Quest'ultimo, avendo un'area di spinta maggiore del pistone di riposizionamento, sposta la spola in modo tale da collegare i canali **1 - 4** e **2 - 3** ( fig. 2 ).*

*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.

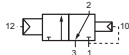
*Per interventi successivi sul comando manuale usare un adeguato cacciavite ed operare come al punto 1 o 2.*



# INDEX / INDICE

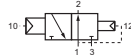
(\*) ATEX versions see / Versioni ATEX vedi P. B-113

## G1/4 VALVES AND SOLENOID VALVES / VALVOLE ED ELETTROVALVOLE



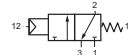
**V32V1P614**

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



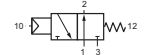
**V32V1P914**

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



(\*) **V32V1P6M4**

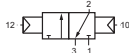
SINGLE PNEUMATIC PILOT - SPRING RETURN  
COMANDO PNEUMATICO - MOLLA MECCANICA



(\*) **V32V1P9M4**

SINGLE PNEUMATIC PILOT - SPRING RETURN  
COMANDO PNEUMATICO - MOLLA MECCANICA

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(\*) **V32V2P014**

DOUBLE PNEUMATIC PILOT  
DOPPIO COMANDO PNEUMATICO



**V52V1P014**

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



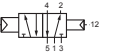
(\*) **V52V1PM14**

SINGLE PNEUMATIC PILOT - SPRING RETURN  
COMANDO PNEUMATICO - MOLLA MECCANICA

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(\*) **V52V2P014**

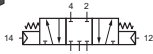
DOUBLE PNEUMATIC PILOT  
DOPPIO COMANDO PNEUMATICO



**V52V2PD14**

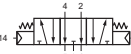
..... WITH DIFFERENTIAL  
..... CON DIFFERENZIALE

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(\*) **V53V2P614**

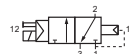
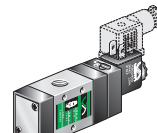
DOUBLE PNEUMATIC PILOT - CENTER POSITION CLOSED  
DOPPIO COMANDO PNEUMATICO - CENTRI CHIUSI



(\*) **V53V2P914**

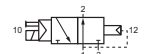
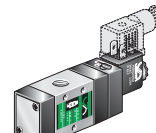
DOUBLE PNEUMATIC PILOT - CENTER POSITION OPEN  
DOPPIO COMANDO PNEUMATICO - CENTRI APERTI

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**E32W1S614 - .....**

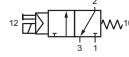
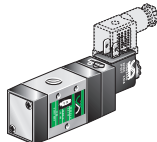
SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN  
COMANDO ELETTROPNEUMATICO - MOLLA PNEUMATICA



**E32W1S914 - .....**

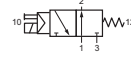
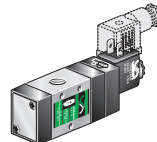
SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN  
COMANDO ELETTROPNEUMATICO - MOLLA PNEUMATICA

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(\*) **E32W1S6M4 - .....**

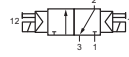
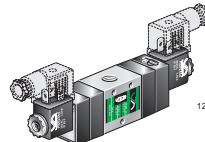
SINGLE SOLENOID VALVE - SPRING RETURN  
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



(\*) **E32W1S9M4 - .....**

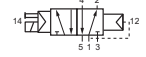
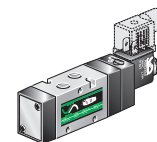
SINGLE SOLENOID VALVE - SPRING RETURN  
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA

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(\*) **E32W2S014 - .....**

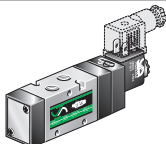
DOUBLE SOLENOID VALVE  
DOPPIO COMANDO ELETTROPNEUMATICO



**E32W1S014 - .....**

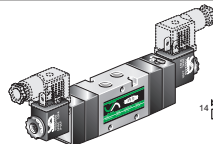
SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN  
COMANDO ELETTROPNEUMATICO - MOLLA PNEUMATICA

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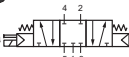
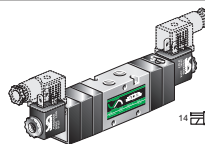
(\*) **E52W1SM14 - .....**

SINGLE SOLENOID VALVE - SPRING RETURN  
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



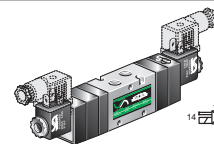
(\*) **E52W2S014 - .....**

DOUBLE SOLENOID VALVE  
DOPPIO COMANDO ELETTROPNEUMATICO



(\*) **E53W2S614 - .....**

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



(\*) **E53W2S914 - .....**

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

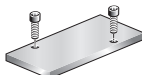
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## G1/4 COMPONENTS FOR ASSEMBLING AND SPARE PARTS / COMPONENTI PER L'ASSEMBLAGGIO E RICAMBI

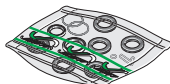
(\*) **ME .14**



**PCH 014**



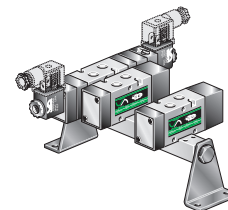
**SET1 1/4 SG  
SET2 1/4 SG**



**KM 014**



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**RTCOV.14  
SBCOV.14  
SACOV.14**

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SERIE **G1/4**

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

**VALVES AND SOLENOID VALVES G1/4 SERIES / VALVOLE ED ELETTROVALVOLE SERIE G1/4**

**G1/4**

<b>Port connections</b> .....	<b>G1/4</b>
Pilot connections .....	G1/8
Flow section .....	Ø 8 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

<b>3/2 VALVES AND SOLENOID VALVES</b>	
Fixing.....	n°3 holes Ø 4,25 manifold system see p. 33.
Nominal air flow .....	1080 NI/min
Fluid conductance "C".....	4,34 NI/s bar
Critical pressure ratio "b".....	0,212

<b>5/2 VALVES AND SOLENOID VALVES</b>	
Fixing.....	n°3 holes Ø 4,25 manifold system pp. 30 ÷ 31, 33.
Nominal air flow.....	1080 NI/min
Fluid conductance "C".....	4,34 NI/s bar
Critical pressure ratio "b".....	0,212

<b>5/3 VALVES AND SOLENOID VALVES</b>	
Fixing.....	n°3 holes Ø 4,25 manifold system pp. 30 ÷ 31, 33.
Nominal air flow.....	800 NI/min
Fluid conductance "C".....	3,22 NI/s bar
Critical pressure ratio "b".....	0,265

<b>Connessioni di lavoro</b> .....	<b>G1/4</b>
Connessioni operatori.....	G 1/8
Diámetro nominale.....	Ø 8 mm
Temperatura ambiente.....	-10 °C ÷ +50 °C
Temperatura fluido.....	0 °C ÷ +40 °C
Lubrificazione.....	Non necessaria
Fluido.....	Aria filtrata
Temperatura nominale.....	+20 °C
Pressione nominale.....	6 bar

<b>VALVOLE ED ELETTROVALVOLE 3/2</b>	
Fissaggio.....	n°3 fori laterali Ø 4,25 su collettore vedi p. 33
Portata nominale.....	1080 NI/min
Valore conduttanza "C".....	4,34 NI/s bar
Rapporto critico delle pressioni "b".....	0,212

<b>VALVOLE ED ELETTROVALVOLE 5/2</b>	
Fissaggio .....	n°3 fori laterali Ø 4,25 su base vedi pp. 30 ÷ 31 su collettore vedi p. 33
Portata nominale .....	1080 NI/min
Valore conduttanza "C".....	4,34 NI/s bar
Rapporto critico delle pressioni "b".....	0,212

<b>VALVOLE ED ELETTROVALVOLE 5/3</b>	
Fissaggio .....	n°3 fori laterali Ø 4,25 su base vedi pp. 24 ÷ 25 su collettore vedi p. 33
Portata nominale .....	800 NI/min
Valore conduttanza "C".....	3,22 NI/s bar
Rapporto critico delle pressioni "b".....	0,265

**PNEUMATIC VALVES FEATURES / CARATTERISTICHE VALVOLE PNEUMATICHE**

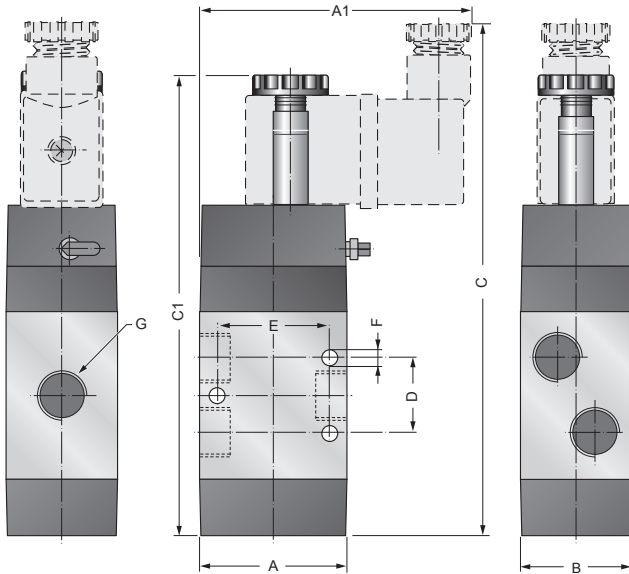
Size Taglia	Code Codice	Nominal pilot pressure (bar) Pressione di pilotaggio nominale (bar)	Nominal max frequency (Hz) Frequenza max nominale (Hz)	Operating pressure range (bar) Pressione di esercizio (bar)
<b>G 1/4"</b>	V32V1P614	4 bar (10 bar)	22 Hz	2,2 ÷ 10 bar
	V32V1P914	4 bar (10 bar)	22 Hz	2,2 ÷ 10 bar
	V32V1P6M4	2,85 bar	11 Hz	1,5 ÷ 10 bar
	V32V1P9M4	2,85 bar	11 Hz	1,5 ÷ 10 bar
	V32V2P014	1,3 bar	31 Hz	1,2 ÷ 10 bar
	V52V1P014	4 bar (10 bar)	21 Hz	2,5 ÷ 10 bar
	V52V1PM14	2,85 bar	10 Hz	1,5 ÷ 10 bar
	V52V2P014	1,3 bar	30 Hz	1,5 ÷ 10 bar
	V52V2PD14	1,3 bar	30 Hz	1,5 ÷ 10 bar
	V53V2P614	3,6 bar	8 Hz	1,5 ÷ 10 bar
	V53V2P914	3,6 bar	8 Hz	1,5 ÷ 10 bar

**SOLENOID VALVES FEATURES / CARATTERISTICHE ELETTROVALVOLE**

Size Taglia	Code Codice	Average actioning 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	
<b>G 1/4"</b>	E32W1S614	18 ms	21 ms	33 ms	44 ms	17 Hz	14 Hz	2,2 ÷ 10 bar
	E32W1S914	18 ms	21 ms	33 ms	44 ms	17 Hz	14 Hz	2,2 ÷ 10 bar
	E32W1S6M4	19 ms	21 ms	35 ms	46 ms	11 Hz	11 Hz	2,5 ÷ 10 bar
	E32W1S9M4	19 ms	21 ms	35 ms	46 ms	11 Hz	11 Hz	2,5 ÷ 10 bar
	E32W2S014	11 ms	14 ms	11 ms	14 ms	27 Hz	22 Hz	1,2 ÷ 10 bar
	E52W1S014	18 ms	21 ms	33 ms	44 ms	16 Hz	13 Hz	2,5 ÷ 10 bar
	E52W1SM14	19 ms	21 ms	35 ms	46 ms	11 Hz	11 Hz	2,5 ÷ 10 bar
	E52W2S014	11 ms	14 ms	11 ms	14 ms	27 Hz	21 Hz	1,5 ÷ 10 bar
	E53W2S614	17 ms	20 ms	17 ms	20 ms	8 Hz	8 Hz	3 ÷ 10 bar
	E53W2S914	17 ms	20 ms	17 ms	20 ms	8 Hz	8 Hz	3 ÷ 10 bar

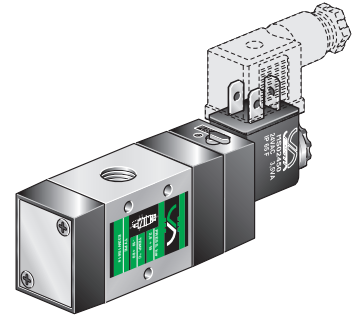


**SOLENOID VALVE / 3/2**  
 SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN  
 COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO MOLLA PNEUMATICA

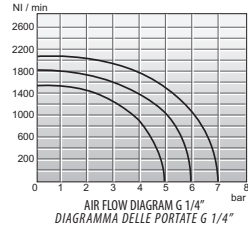
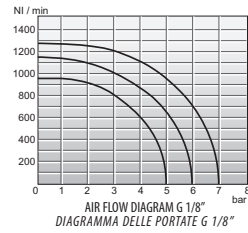


Size Taglia	A	A1	B	C	C1	D	E	ØF	G
1/8	30	63	26	133	119	18	23	4,25	G1/8
1/4	40	73	30	140	125	20	30	4,25	G1/4
1/2	60	60	40	181	167	40	50	5,5	G1/2

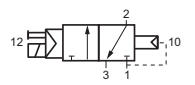
**E32W1S.1. - ....**



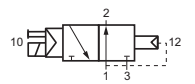
**DIAGRAMS / DIAGRAMMI**



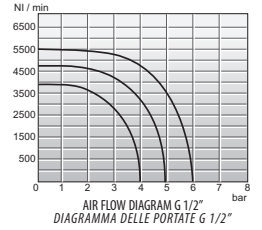
**SIMBOLS / SIMBOLI**



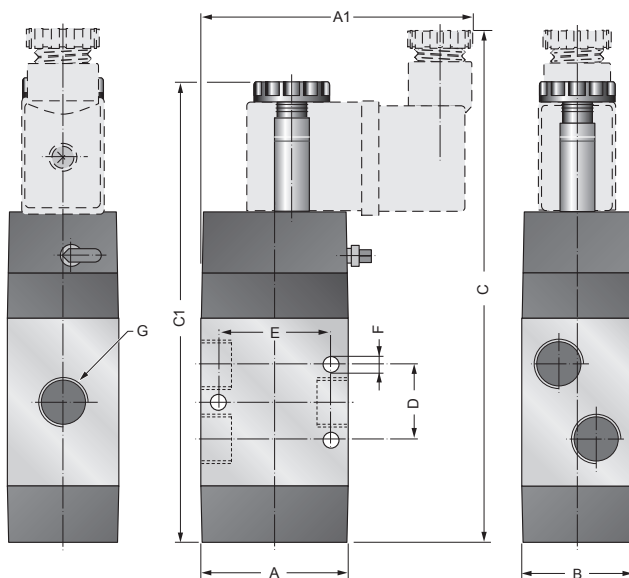
**E32W1S61. -.....**



**E32W1S91. -.....**



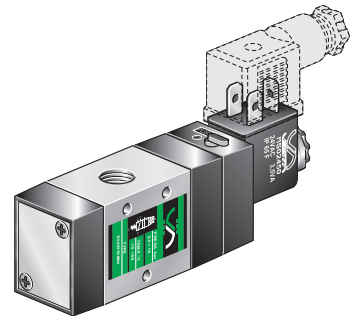
**SOLENOID VALVE / ELETTROVALVOLA 3/2**  
 SINGLE SOLENOID VALVE - SPRING RETURN  
 COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO MOLLA MECCANICA



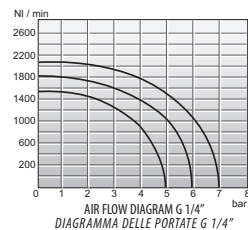
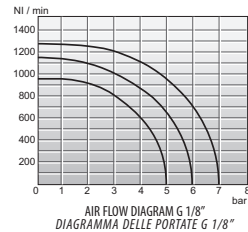
(\*) ATEX versions see / Versioni ATEX vedi P.

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

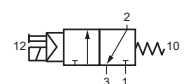
**E32W1S.M. - ....**



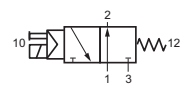
**DIAGRAMS / DIAGRAMMI**



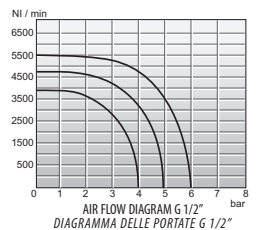
**SIMBOLS / SIMBOLI**



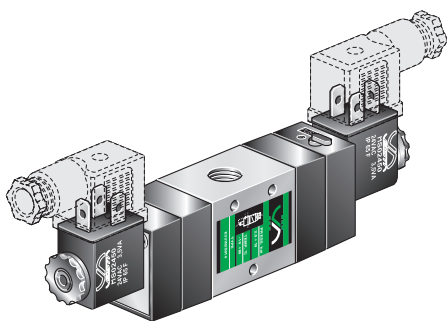
**E32W1S6M -.....**



**E32W1S9M -.....**



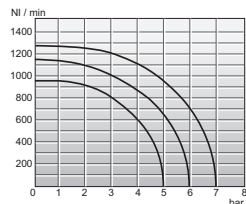
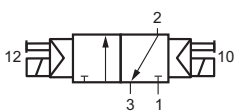
**E32W2S01. - .....**



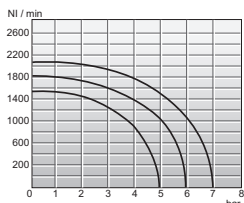
**SOLENOID VALVE / 3/2**  
DOUBLE SOLENOID VALVE / DOPPIO COMANDO ELETTROPNEUMATICO

**SIMBOL / SIMBOLO**

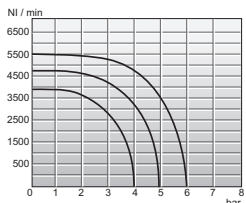
**DIAGRAMS / DIAGRAMMI**



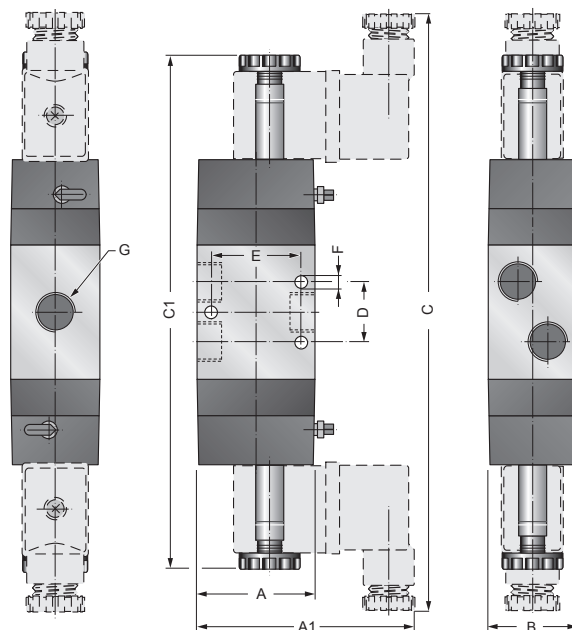
AIR FLOW DIAGRAM G 1/8"  
DIAGRAMMA DELLE PORTATE G 1/8"



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



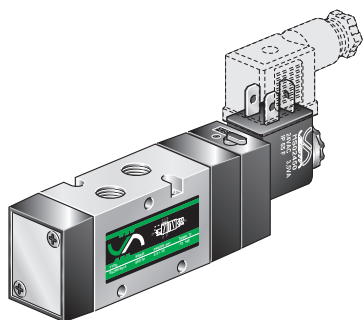
AIR FLOW DIAGRAM G 1/2"  
DIAGRAMMA DELLE PORTATE G 1/2"



(\*) 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

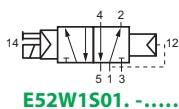
**E52W1S.1. - .....**



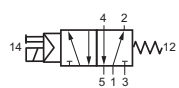
**SOLENOID VALVE / 5/2**  
SINGLE SOLENOID VALVE / COMANDO ELETTROPNEUMATICO

**SIMBOLS / SIMBOLI**

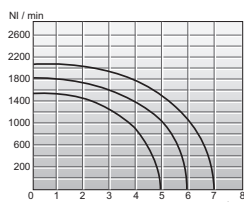
**DIAGRAMS / DIAGRAMMI**



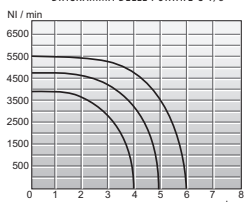
**E52W1S01. - .....**



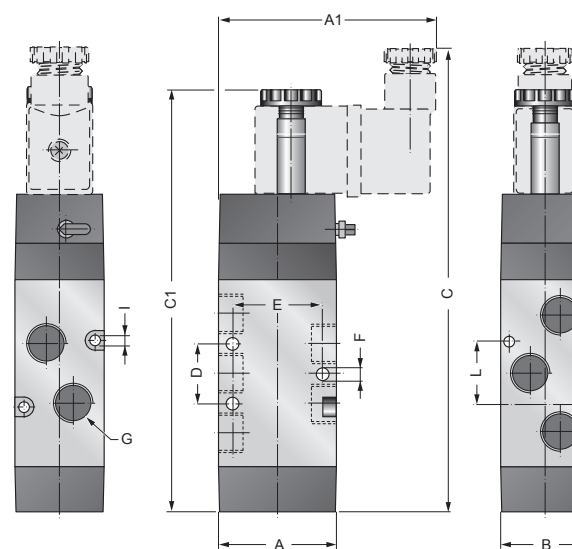
(\*) **E52W1SM1. - .....**



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



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



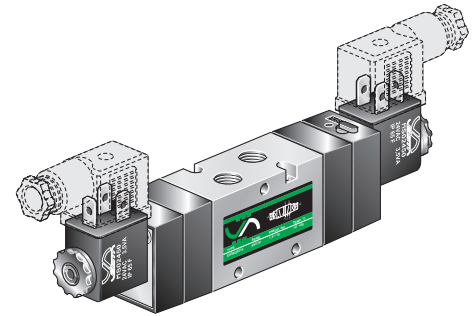
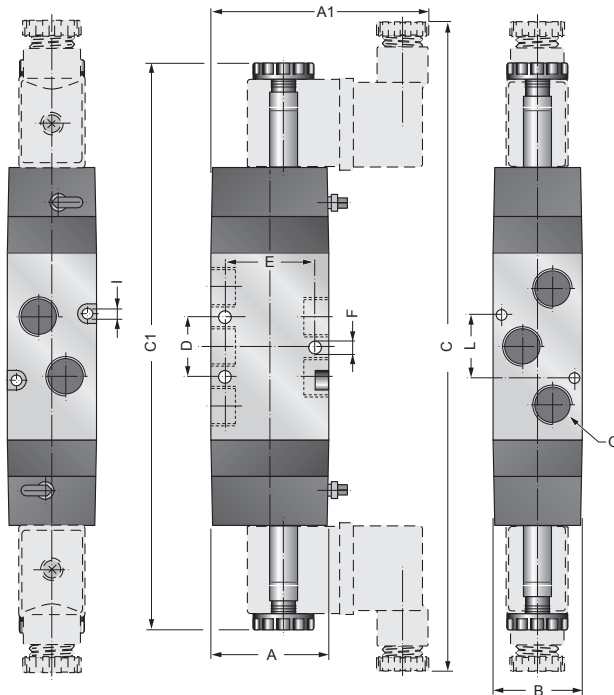
(\*) ATEX versions see / Versioni ATEX vedi P. B-113

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

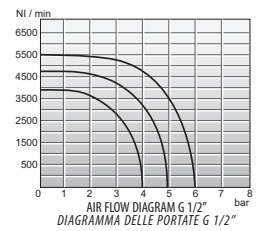
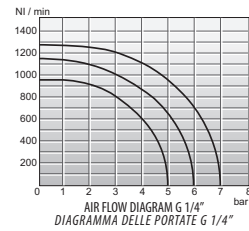
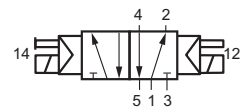
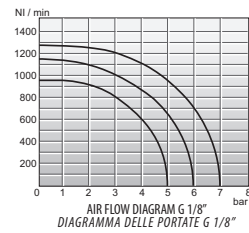
DOUBLE SOLENOID VALVE / *DOPIO COMANDO ELETTROPNEUMATICO*



**E52W2S01. - ....**

#### DIAGRAMS / DIAGRAMMI

#### SIMBOL / SIMBOLO

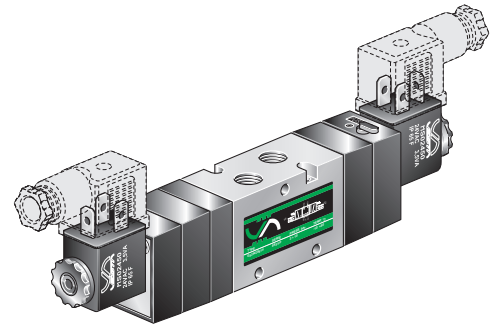
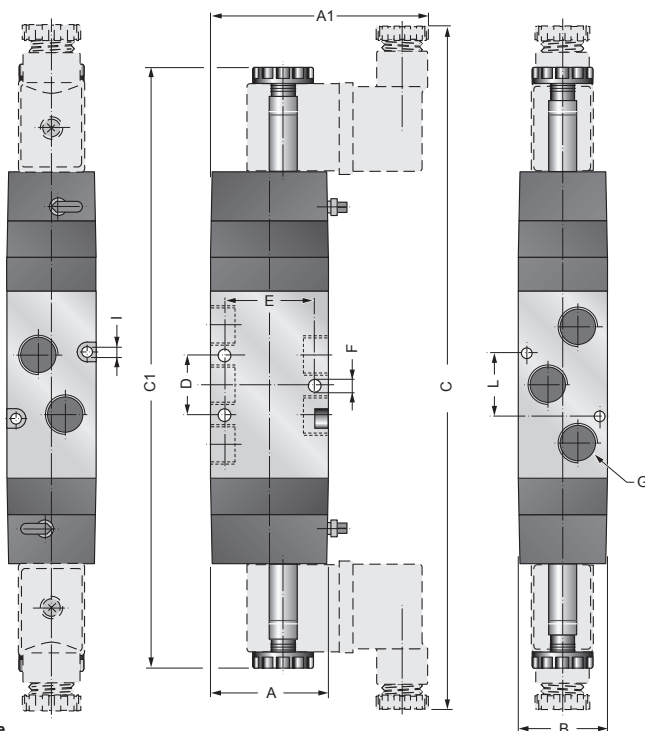


Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L
1/8	30	63	26	215	186	18	23	4,25	G1/8	3,25	28,6
(*) 1/4	40	73	30	220	191	20	30	4,25	G1/4	3,25	21
(*) 1/2	60	60	40	280	252	40	50	5,5	G1/2	—	—

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

### SOLENOID VALVE / 5/3

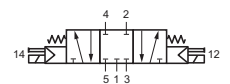
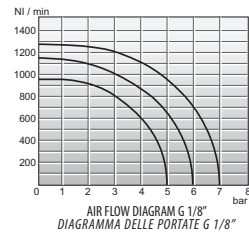
DOUBLE SOLENOID VALVE / *DOPIO COMANDO ELETTROPNEUMATICO*



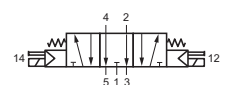
**E53W2S.1. - ....**

#### DIAGRAMS / DIAGRAMMI

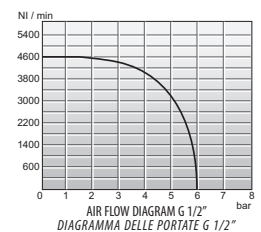
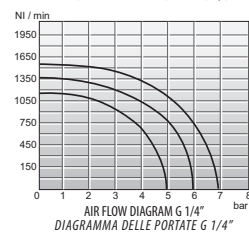
#### SIMBOLS / SIMBOLI



**E53W2S61 - .....**



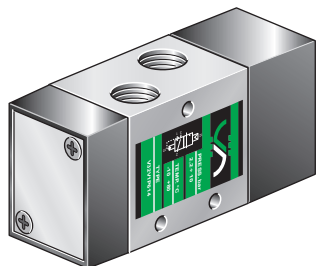
**E53W2S91 - .....**



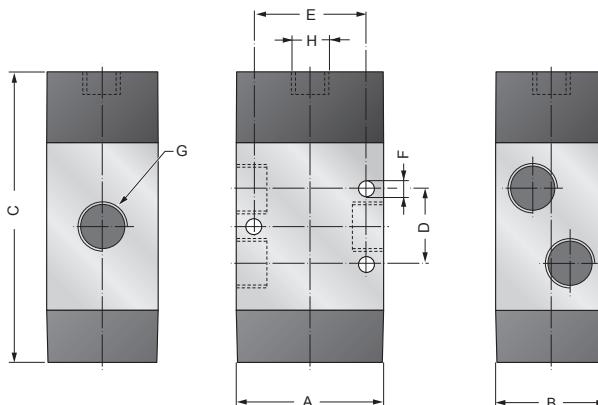
Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L
1/8	30	63	26	227	198	18	23	4,25	G1/8	3,25	28,6
1/4	40	73	30	232	203	20	30	4,25	G1/4	3,25	21
1/2	60	60	40	280	252	40	50	5,5	G1/2	—	—

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

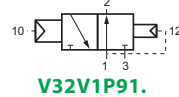
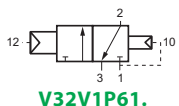
V32V1P . 1.



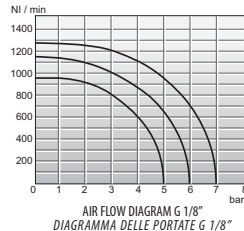
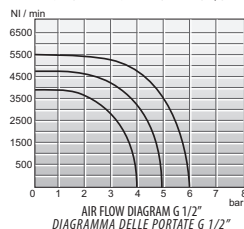
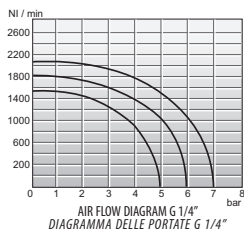
**VALVE / VALVOLA 3/2**  
SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN  
COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA



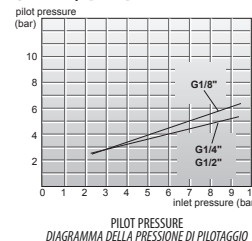
**SIMBOLS / SIMBOLI**



**DIAGRAMS / DIAGRAMMI**

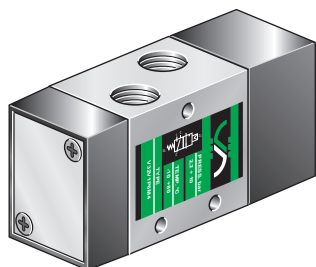


**DIAGRAM / DIAGRAMMA**

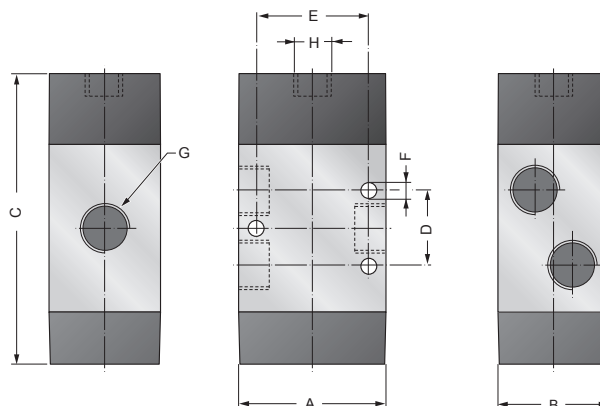


Size Taglia	A	B	C	D	E	ØF	G	H
G1/8	30	26	74	18	23	4,25	G1/8	G1/8
G1/4	40	30	81,5	20	30	4,25	G1/4	G1/8
G1/2	60	40	127	40	50	5,5	G1/2	G1/8

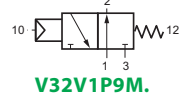
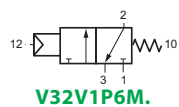
V32V1P . M.



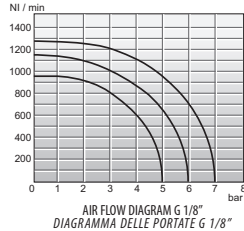
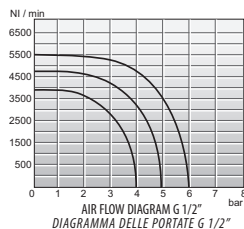
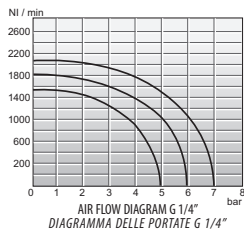
**VALVE / VALVOLA 3/2**  
SINGLE PNEUMATIC PILOT - SPRING RETURN  
COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA MECCANICA



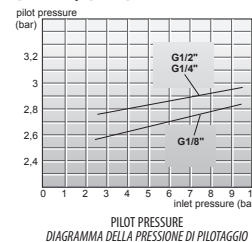
**SIMBOLS / SIMBOLI**



**DIAGRAMS / DIAGRAMMI**



**DIAGRAM / DIAGRAMMA**



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

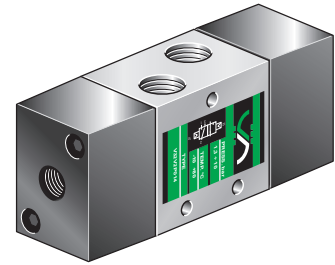
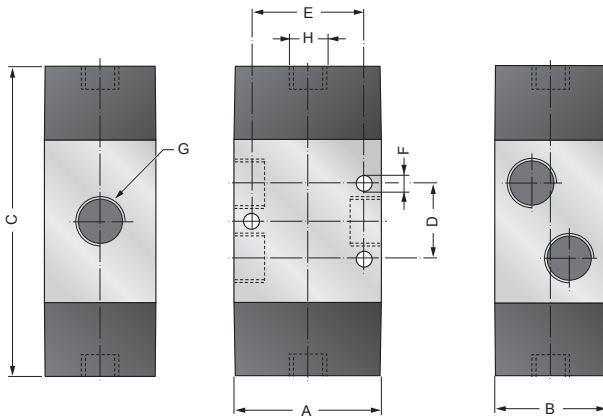
Size Taglia	A	B	C	D	E	ØF	G	H
G1/8	30	26	74	18	23	4,25	G1/8	G1/8
(*) G1/4	40	30	81,5	20	30	4,25	G1/4	G1/8
(*) G1/2	60	40	118	40	50	5,5	G1/2	G1/8





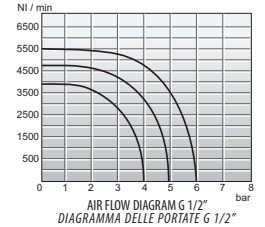
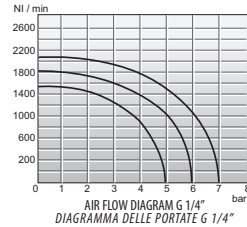
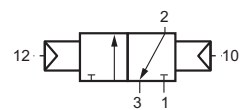
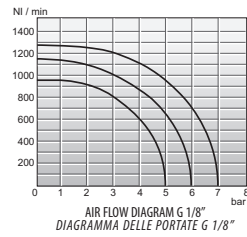
**VALVE / VALVOLA 3/2**  
DOUBLE PNEUMATIC PILOT / *DOPIO COMANDO PNEUMATICO*

**V32V2P01.**

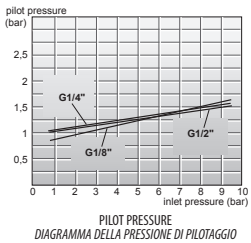


**DIAGRAMS / DIAGRAMMI**

**SIMBOL / SIMBOLO**



**DIAGRAM / DIAGRAMMA**

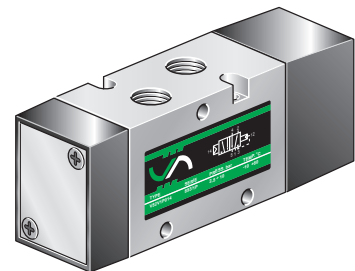
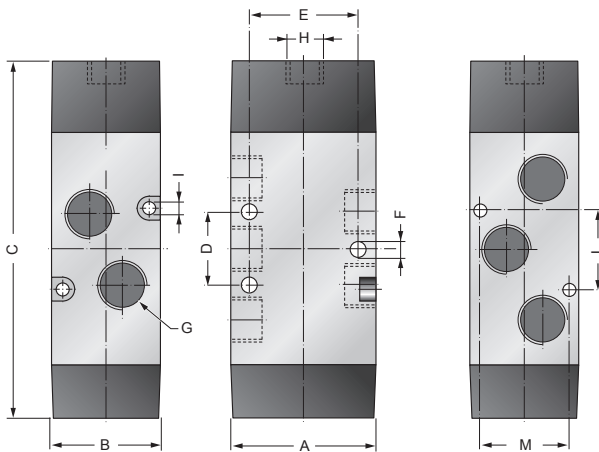


(\*) ATEX versions see / *Versioni ATEX vedi P. B-113*

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

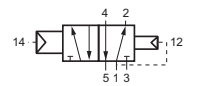
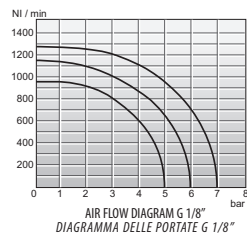
**VALVE / VALVOLA 5/2**  
SINGLE PNEUMATIC PILOT / *COMANDO PNEUMATICO*

**V52V1P . 1.**

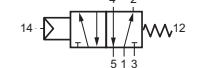


**DIAGRAMS / DIAGRAMMI**

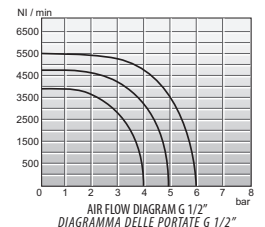
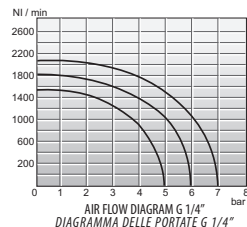
**SIMBOLS / SIMBOLI**



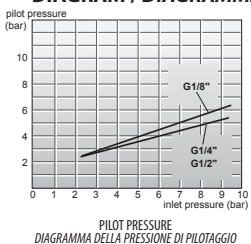
**V52V1P01.**



**V52V1PM1.**



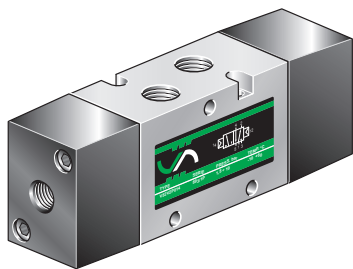
**DIAGRAM / DIAGRAMMA**



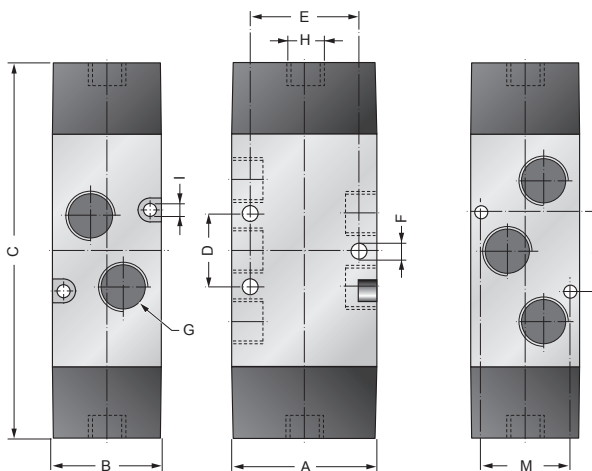
(\*) ATEX versions see / *Versioni ATEX vedi P. B-113*

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	—	—	—

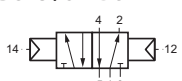
V52V2P . 1.



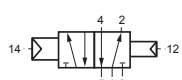
VALVE / VALVOLA 5/2  
DOUBLE PNEUMATIC PILOT / DOPPIO COMANDO PNEUMATICO



SIMBOLS / SIMBOLI

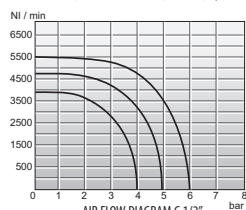
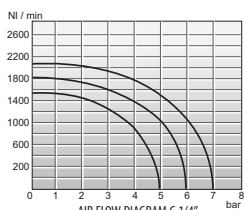
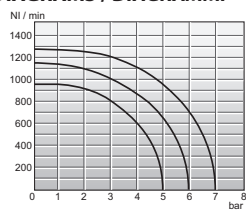


V52V2P01.



V52V2PD1.

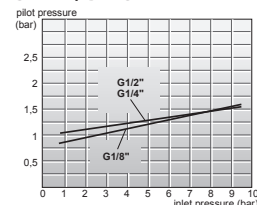
DIAGRAMS / DIAGRAMMI



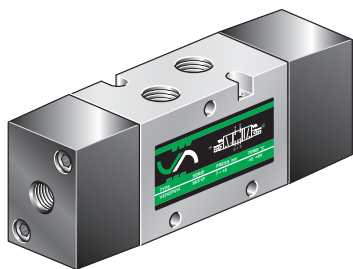
(\*) ATEX versions see / Versioni ATEX vedi P. B-113

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	—	—	—

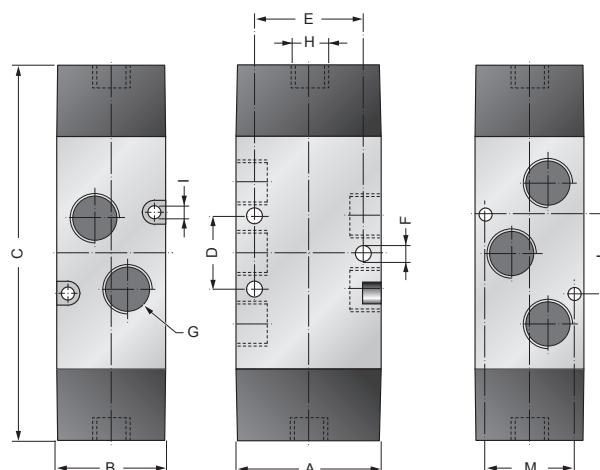
DIAGRAM / DIAGRAMMA



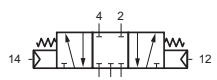
V53V2P . 1.



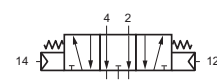
VALVE / VALVOLA 5/3  
DOUBLE PNEUMATIC PILOT / DOPPIO COMANDO PNEUMATICO



SIMBOLS / SIMBOLI

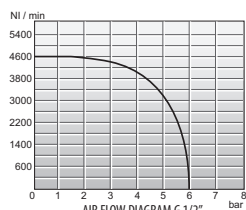
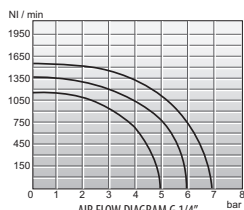
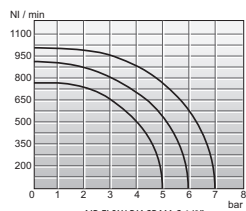


V53V2P61.



V53V2P91.

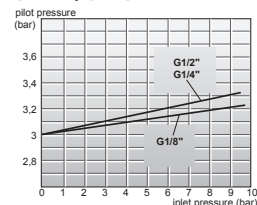
DIAGRAMS / DIAGRAMMI



(\*) 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	—	—	—

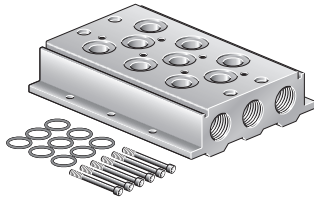
DIAGRAM / DIAGRAMMA





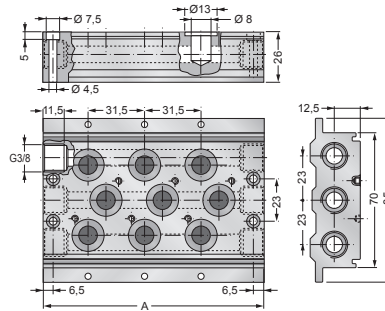
## ME .14

DOUBLE INLET MANIFOLD FOR ASSEMBLING VALVES AND SOLENOID VALVES G1/4  
 (\*) BASE A DOPPIO INGRESSO PER ASSEMBLAGGIO VALVOLE ED ELETTROVALVOLE G1/4



- 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

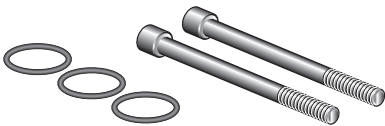
Code Codice	A A	Place Posti
ME 214	91,5	2
ME 314	123,5	3
ME 414	154,5	4
ME 514	186,5	5
ME 614	217,5	6
ME 714	249,5	7
ME 814	280,5	8
ME 914	312,5	9
ME 1014	343,5	10

## 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

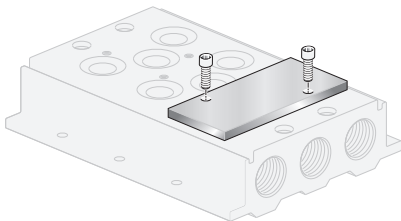


- Subbases are supplied with assembling screws and seals.
- Kit of screws and seals can be supplied also as spare parts with the code **KM 018** and **KM 014**.
- Le basi sono complete delle viti e delle guarnizioni necessarie per il fissaggio delle valvole.
- Tuttavia può essere fornito come ricambio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

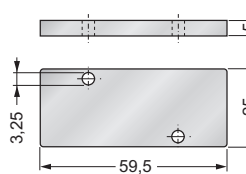
### PCH 018 (G1/8)

### PCH 014 (G1/4)

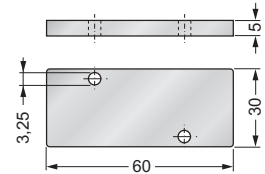
PLUG-FLAT  
 CHIUSURA POSTO INUTILIZZATO



#### PCH 018

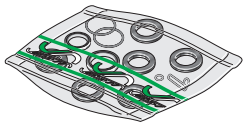


#### PCH 014



## SET . 1/4 SG

SEALS KIT  
 KIT GUARNIZIONI DI RICAMBIO



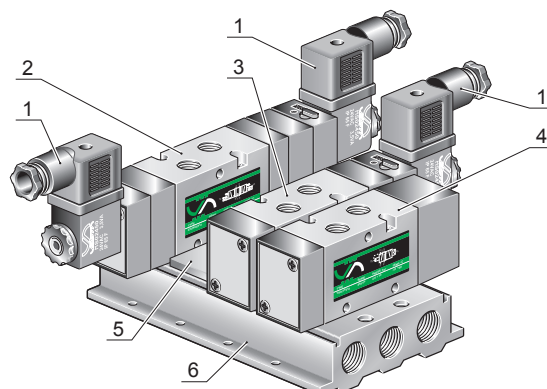
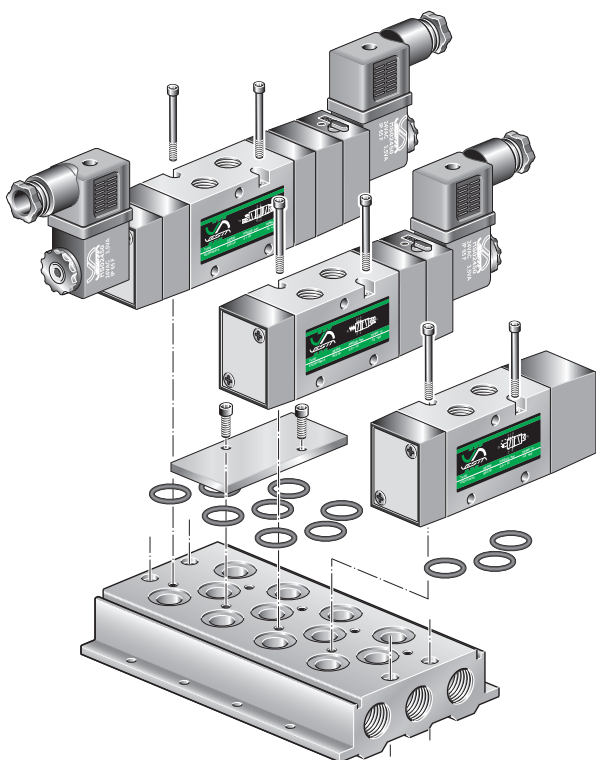
Seals kit code - Codice del kit

**SET 1 1/4 SG:** for G1/4 **mono-stable** valves - per valvole **monostabili** G1/4.

**SET 2 1/4 SG:** for G1/4 **bi-stable** valves - per valvole **bistabili** G1/4

Example / Esempio: **E52W1SM14-02400** → **SET 1 1/4 SG**      **E52W2S014-02400** → **SET 2 1/4 SG**

**EXAMPLE OF MODULAR ASSEMBLING VALVES AND SOLENOID VALVES G1/4  
ESEMPIO DI ASSEMBLAGGIO MODULARE DI VALVOLE ED ELETTROVALVOLE G1/4**

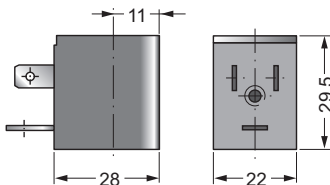
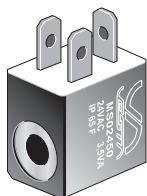


Components needed for assembling manifold on the picture.  
Esempio di componenti necessari a realizzare la batteria raffigurata.

Position Posizione	Quantity Quantità	Code Codice
1 .....	N° 3 .....	<b>CEP/1</b>
2 .....	N° 1 .....	<b>E53W2S914 - 02450</b>
3 .....	N° 1 .....	<b>E52W1SM14 - 02450</b>
4 .....	N° 1 .....	<b>V52V1PM14</b>
5 .....	N° 1 .....	<b>PCH014</b>
6 .....	N° 1 .....	<b>ME 414</b>

**MS .....**

**COIL  
SOLENOIDE**



**CODES / CODICI**

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

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

**TECHNICAL FEATURES**

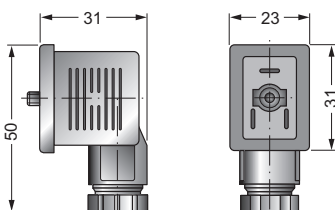
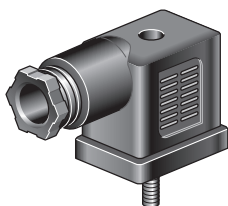
Standard voltage .....	12, 24 V DC 24, 110, 220 V AC (50/60 Hz)
Solenoid characteristics .....	2,5 Watt in DC; 3,5 VA in AC
Tension .....	± 10%
Ambient temperature range .....	-20 °C ÷ +50 °C
Degree of .....	Class F
Expoy .....	Incapsulated

**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	<b>CEP-1</b>	All tension Tutte le tensioni
Connector with led Connettore con led	<b>CEP-1 L 10 / 50</b> <b>CEP-1 L 70 / 250</b>	10/50 V AC / DC 70/250V AC / DC
Connector with led and varistor Connettore con led e varistore	<b>CEP-1 LV 24</b> <b>CEP-1 LV 110</b> <b>CEP-1 LV 220</b>	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.



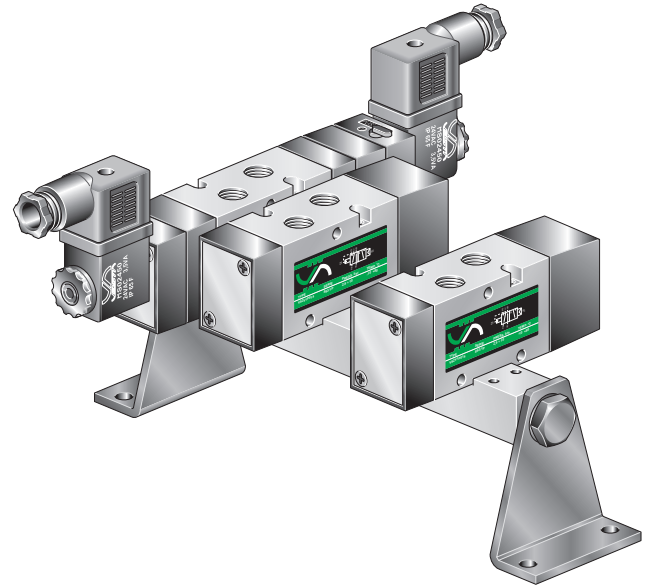
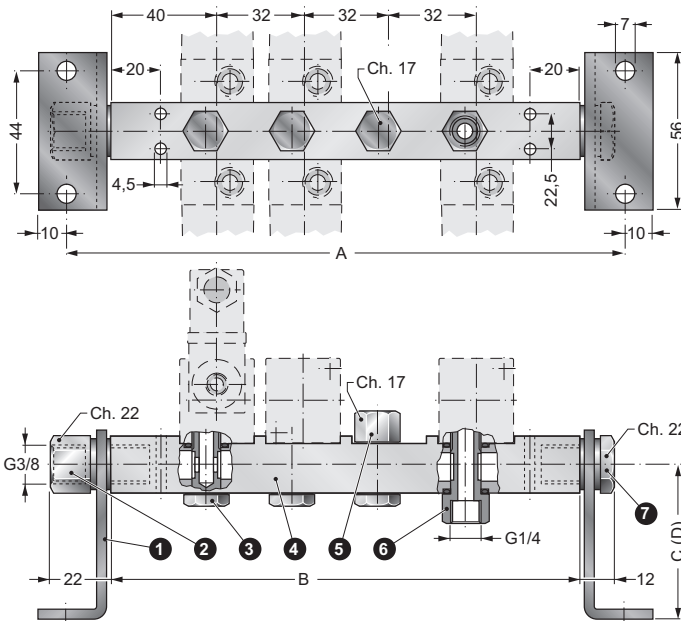
## MANIFOLD ASSEMBLING VALVES AND SOLENOID VALVES G1/4 ASSEMBLAGGIO SU COLLETTORE DELLE VALVOLE ED ELETTROVALVOLE G 1/4

RTCOV . 14

SBCOV . 14

SACOV . 14

MANIFOLDS WITH COMMON INLET AIR FOR G1/4 VALVES  
COLLETTORI PER VALVOLE FILETTATE G1/4



CODES / CODICI

Code Codice	A	B	C	D	Place Posti
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**ASSEMBLED MANIFOLD RT014 WITH FITTINGS  
COLLETTORE RT014 COMPLETO DI RACCORDI**

RTCOV214	- .....	112 .....	- .....	- .....	2
RTCOV314	- .....	144 .....	- .....	- .....	3
RTCOV414	- .....	176 .....	- .....	- .....	4
RTCOV514	- .....	208 .....	- .....	- .....	5

**ASSEMBLED MANIFOLD RT014 WITH FITTINGS AND LOW SUPPORTS SB014  
COLLETTORE RT014 COMPLETO DI RACCORDI E SUPPORTI BASSI SB014**

SBCOV214	134 .....	104 .....	95 .....	- .....	2
SBCOV314	164 .....	134 .....	95 .....	- .....	3
SBCOV414	194 .....	164 .....	95 .....	- .....	4
SBCOV514	224 .....	194 .....	95 .....	- .....	5

**ASSEMBLED MANIFOLD RT014 WITH FITTINGS AND HIGH SUPPORTS SA014  
COLLETTORE RT014 COMPLETO DI RACCORDI E SUPPORTI ALTI SA014**

SACOV214	134 .....	104 .....	- .....	133 .....	2
SACOV314	164 .....	134 .....	- .....	133 .....	3
SACOV414	194 .....	164 .....	- .....	133 .....	4
SACOV514	224 .....	194 .....	- .....	133 .....	5

Position Posizione	Code Codice	Description Descrizione
1	SB014 (ref. C) ..... SA014 (ref. D) .....	Low supports mounted "C" / Supporto basso "C" High supports mounted "D" / Supporto alto "D"
2	RFS14	Fixing supports fitting with inlet air Raccordo fissaggio supporto con connessione
3	RT014	Fixing valve fitting Raccordo fissaggio valvola
4	COV214 ..... COV314 ..... COV414 ..... COV514 .....	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	TF014	Closed fitting Tappo chiusura raccordo
6	RTP14	Fixing valve fitting with inlet air Raccordo di fissaggio valvola passante
7	RC014	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).

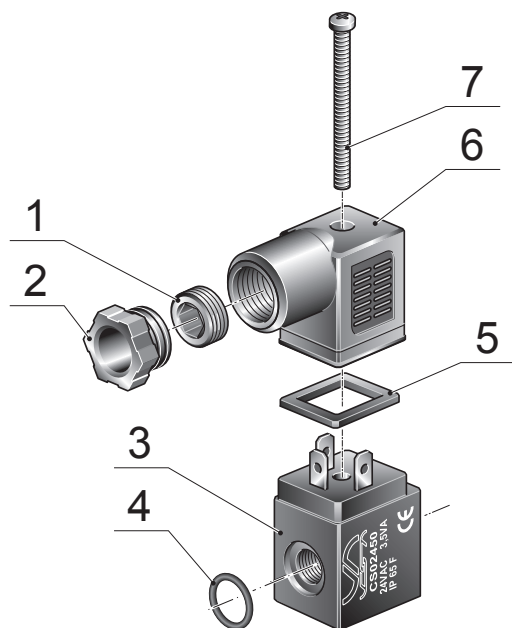
**Collegamento elettrico**

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