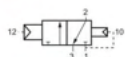


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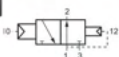
VALVES AND SOLENOID VALVES / VALVOLE ED ELETTROVALVOLE G1/8

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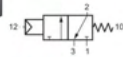
V32V1P618

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



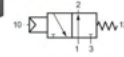
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SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN
COMANDO PNEUMATICO - MOLLA PNEUMATICA



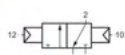
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SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



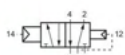
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SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



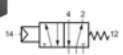
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DOUBLE PNEUMATIC PILOT
DOPPIO COMANDO PNEUMATICO



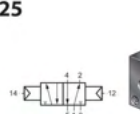
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SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN
COMANDO PNEUMATICO - MOLLA PNEUMATICA



V52V1PM18

SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



V52V2P018

DOUBLE PNEUMATIC PILOT
DOPPIO COMANDO PNEUMATICO



V52V2PD18

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



V53V2P618

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



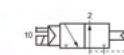
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DOUBLE PNEUMATIC PILOT - CENTER POSITION OPEN
DOPPIO COMANDO PNEUMATICO - CENTRI APERTI



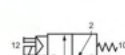
E32W1S618 -.....

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



E32W1S918 -.....

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



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



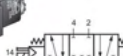
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SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



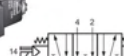
E52W2S018 -.....

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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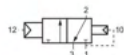
G1/4 VALVES AND SOLENOID VALVES / VALVOLE ED ELETTROVALVOLE

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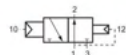
V32V1P614

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



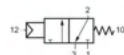
V32V1P914

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



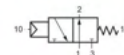
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SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



(*) V32V1P9M4

SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



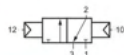
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(*) V32V2P014

DOUBLE PNEUMATIC PILOT
DOPPIO COMANDO PNEUMATICO



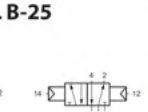
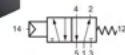
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SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN
COMANDO PNEUMATICO - MOLLA PNEUMATICA



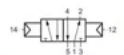
(*) V52V1PM14

SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



(*) V52V2P014

DOUBLE PNEUMATIC PILOT
DOPPIO COMANDO PNEUMATICO



V52V2PD14

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



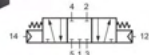
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(*) V53V2P614

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



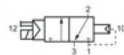
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DOUBLE PNEUMATIC PILOT - CENTER POSITION OPEN
DOPPIO COMANDO PNEUMATICO - CENTRI APERTI



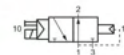
E32W1S614 -

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



E32W1S914 -

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



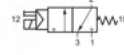
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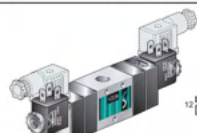
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SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



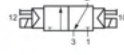
(*) E32W1S9M4 -

SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



(*) E32W2S014 -

DOUBLE SOLENOID VALVE
DOPPIO COMANDO ELETTROPNEUMATICO



E52W1S014 -

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



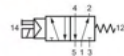
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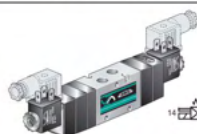
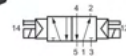
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SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



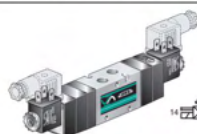
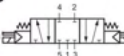
(*) E52W2S014 -

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



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

(*) ME .14



PCH 014



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RTCOV.14
SBCOV.14
SACOV.14

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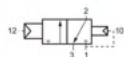
VALVES AND SOLENOID VALVES / VALVOLE ED ELETTROVALVOLE G1/2

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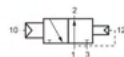
V32V1P612

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



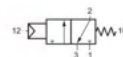
V32V1P912

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COMANDO PNEUMATICO - MOLLA PNEUMATICA



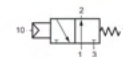
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SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



(*) V32V1P9M2

SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



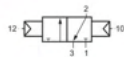
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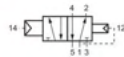
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DOUBLE PNEUMATIC PILOT
DOPPIO COMANDO PNEUMATICO



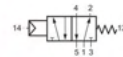
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SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN
COMANDO PNEUMATICO - MOLLA PNEUMATICA



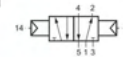
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SINGLE PNEUMATIC PILOT - SPRING RETURN
COMANDO PNEUMATICO - MOLLA MECCANICA



(*) V52V2P012

DOUBLE PNEUMATIC PILOT
DOPPIO COMANDO PNEUMATICO



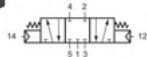
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(*) V53V2P612

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



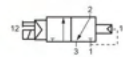
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DOUBLE PNEUMATIC PILOT - CENTER POSITION OPEN
DOPPIO COMANDO PNEUMATICO - CENTRI APERTI



E32W1S612 -

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



E32W1S912 -

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



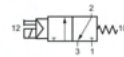
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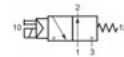
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SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



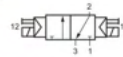
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SINGLE SOLENOID VALVE - SPRING RETURN
COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



(*) E32W2S012 -

DOUBLE SOLENOID VALVE
DOPPIO COMANDO ELETTROPNEUMATICO



E52W1S012 -

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



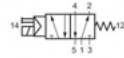
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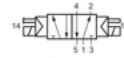
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COMANDO ELETTROPNEUMATICO - MOLLA MECCANICA



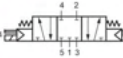
(*) E52W2S012 -

DOUBLE SOLENOID VALVE
DOPPIO COMANDO ELETTROPNEUMATICO



(*) E53W2S612 -

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



(*) E53W2S912 -

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

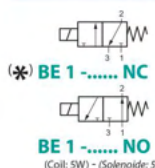


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DIRECT ACTING SOLENOID VALVES AND SPARE PARTS / ELETTROVALVOLE A COMANDO DIRETTO E RICAMBI

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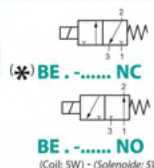
(*) BE 1 -

NC

BE 1 -

NO

(Coil: SW) - (Solenoid: SW)



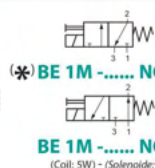
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NC

BE -

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(Coil: SW) - (Solenoid: SW)



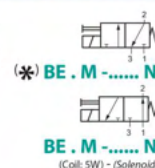
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BE 1M -

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(Coil: SW) - (Solenoid: SW)



(*) BE . M -

NC

BE . M -

NO

(Coil: SW) - (Solenoid: SW)

PL-BE

KM-BE



DIRECT ACTING SOLENOID VALVE
ELETTROVALVOLA A COMANDO DIRETTO

DIRECT ACTING SOLENOID VALVES - MANIFOLD
ELETTROVALVOLE A COMANDO DIRETTO IN BATTERIA

DIRECT ACTING SOLENOID VALVE WITH MANUAL CONTROL
ELETTROVALVOLA A COMANDO DIRETTO CON CONTROLLO MANUALE

DIRECT ACTING SOLENOID VALVES WITH MANUAL CONTROL - MANIFOLDS
ELETTROVALVOLE A COMANDO DIRETTO CON CONTROLLO MANUALE IN BATTERIA

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GE

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MS

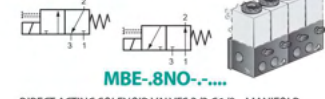
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SET2 1/2 SG

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DIRECT ACTING SOLENOID VALVES 3/2 TUBE Ø4mm - MANIFOLD
ELETTROVALVOLE A COMANDO DIRETTO 3/2 TUBO Ø4mm IN BATTERIA



DIRECT ACTING SOLENOID VALVES 3/2 G1/8 - MANIFOLD
ELETTROVALVOLE A COMANDO DIRETTO 3/2 G1/8 IN BATTERIA





BUILDING FEATURES / CARATTERISTICHE COSTRUTTIVE

VESTA valves and solenoid valves with **G1/8, G1/4** and **G1/2** ports are available in the 3/2, 5/2 and 5/3 versions, with different forms of control (i.e. solenoid / pilot etc). The choice of high quality materials and technical solutions allows the valves to reach good performances even in harsh environmental conditions.

The spool is made in light aluminium alloy nickel treated by Niploy Process (see fig. **A**).

Its shape grants high nominal flow rates (see fig. **D**). Self lubricating lip seals (see fig. **B**) reduce internal friction (see fig. **C**) and provide the valve with a long lasting durable life.

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

*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.

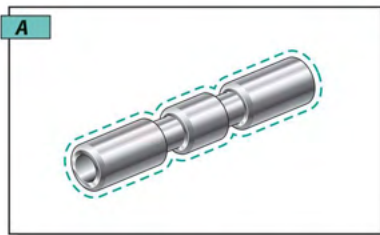
*La spola, costruita in lega leggera e progettata per consentire elevate portate nominali (**D**), viene trattata superficialmente al nickel (Niploy Process) (**A**) onde acquisire una durezza maggiore ed una più elevata resistenza agli agenti aggressivi.*

*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.*

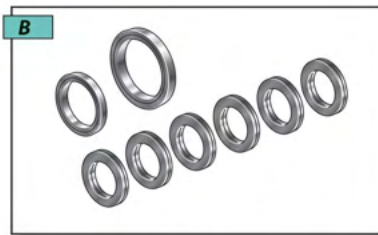
*Tutti i modelli di valvole con connessioni **G1/8; G1/4** e **G1/2** possono essere utilizzati anche in assenza di lubrificazione (**E**).*

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

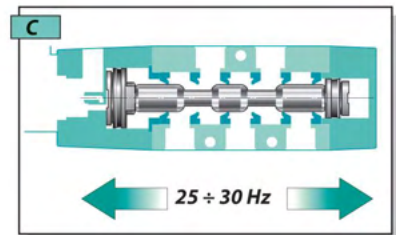
Nelle pagine che seguono tutte le caratteristiche funzionali di ciascuna valvola sono convalidate dal Dipartimento di Meccanica del Politecnico di Torino.



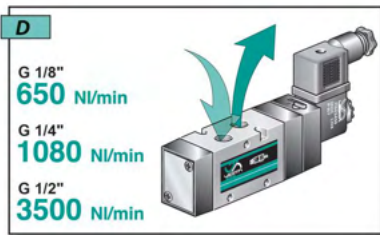
Light alloy spool with Niploy Process treated surface.
Spola in lega leggera con trattamento superficiale Niploy Process.



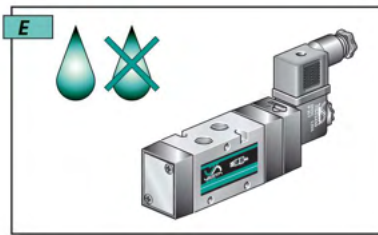
Self lubricating lip rubber seals.
Guarnizioni in elastomero nitrilico con profilo del labbro antiusura.



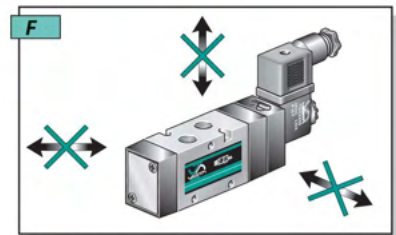
High working frequency.
Alta velocità di scambio per cicli di lavoro elevati.



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. Its 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.

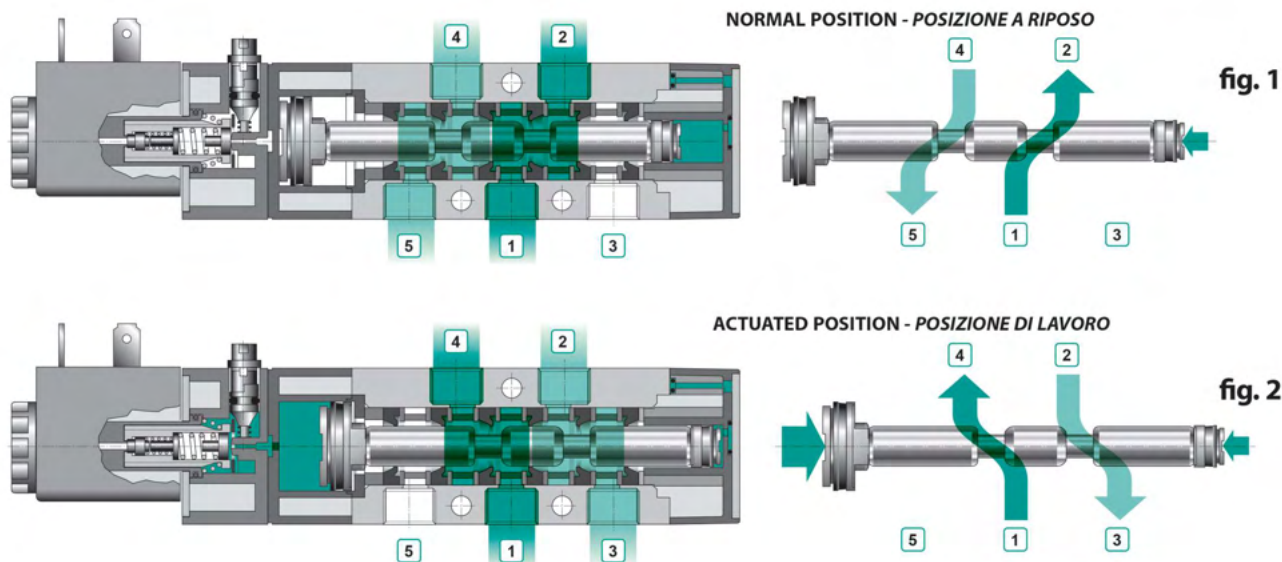
*Il principio di funzionamento del distributore 5/2 (nell'esempio la valvola a comando elettropneumatico e riposizionamento a molla pneumatica **E52W1S018 - 02450**) consiste nel mantenere costantemente in pressione il pistone di riposizionamento (fig. 1), utilizzando la fonte d'aria compressa presente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

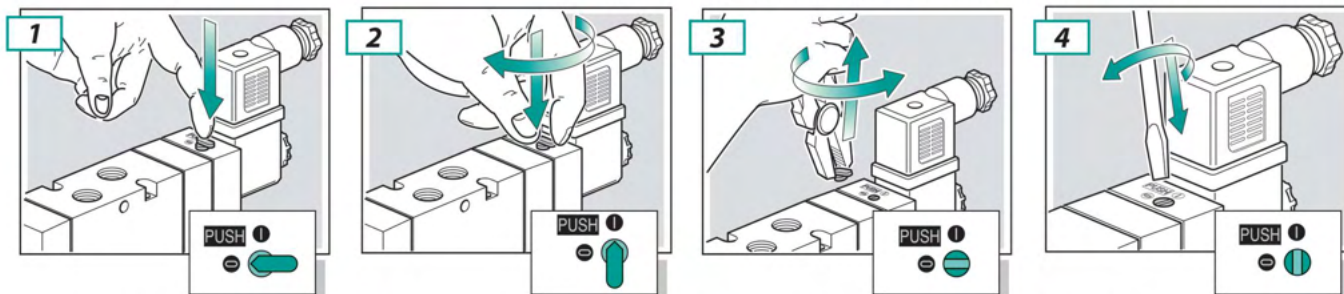
*Quest'ultimo, avendo un'area di spinta maggiore del pistone di riposizionamento, sposta la spola in modo tale da collegare i canali **1- 4** e **2- 3** (fig. 2).*

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. **Release 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 actuate 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.***

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

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

If the M/O is required after breaking off a screwdriver can be used.

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



SERIE **G1/8, G1/4, G1/2**

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	Connessioni di lavoro	G1/8
	Pilot connections	G1/8	Connessioni operatori	G1/8
	Flow section	Ø 6 mm	Diametro nominale	Ø 6 mm
	Environment temperature range	-10 °C ÷ +50 °C	Temperatura ambiente	-10 °C ÷ +50 °C
	Temperature range of medium	0 °C ÷ +40 °C	Temperatura fluido	0 °C ÷ +40 °C
	Lubrication	Not required	Lubrificazione	Non necessaria
	Medium	Filtered air	Fluido	Aria filtrata
	Reference temperature	+20 °C	Temperatura nominale	+20 °C
	Reference pressure	6 bar	Pressione nominale	6 bar
	3/2 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 3/2	
	Fixing	n°3 holes Ø 4,25 manifold system see p. 30.	Fissaggio	n°3 fori laterali Ø 4,25 su collettore vedi p. 32
	Nominal air flow	650 NI/min	Portata nominale	650 NI/min
	Fluid conductance "C"	2,7 NI/s bar	Valore conduttanza "C"	2,7 NI/s bar
	Critical pressure ratio "b"	0,203	Rapporto critico delle pressioni "b"	0,203
	5/2 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 5/2	
	Fixing	n°3 holes Ø 4,25 manifold system pp. 30 ÷ 32.	Fissaggio	n°3 fori laterali Ø 4,25 su collettore vedi p. 32
	Nominal air flow	650 NI/min	Portata nominale	650 NI/min
	Fluid conductance "C"	2,7 NI/s bar	Valore conduttanza "C"	2,7 NI/s bar
	Critical pressure ratio "b"	0,203	Rapporto critico delle pressioni "b"	0,203
	5/3 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 5/3	
	Fixing	n°3 holes Ø 4,25 manifold system pp. 30 ÷ 32.	Fissaggio	n°3 fori laterali Ø 4,25 su collettore vedi p. 32
	Nominal air flow	530 NI/min	Portata nominale	530 NI/min
	Fluid conductance "C"	2,17 NI/s bar	Valore conduttanza "C"	2,17 NI/s bar
	Critical pressure ratio "b"	0,236	Rapporto critico delle pressioni "b"	0,236

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

G1/4	Port connections	G1/4	Connessioni di lavoro	G1/4
	Pilot connections	G1/8	Connessioni operatori	G1/8
	Flow section	Ø 8 mm	Diametro nominale	Ø 8 mm
	Environment temperature range	-10 °C ÷ +50 °C	Temperatura ambiente	-10 °C ÷ +50 °C
	Temperature range of medium	0 °C ÷ +40 °C	Temperatura fluido	0 °C ÷ +40 °C
	Lubrication	Not required	Lubrificazione	Non necessaria
	Medium	Filtered air	Fluido	Aria filtrata
	Reference temperature	+20 °C	Temperatura nominale	+20 °C
	Reference pressure	6 bar	Pressione nominale	6 bar
	3/2 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 3/2	
	Fixing	n°3 holes Ø 4,25 manifold system see p. 33.	Fissaggio	n°3 fori laterali Ø 4,25 su collettore vedi p. 33
	Nominal air flow	1080 NI/min	Portata nominale	1080 NI/min
	Fluid conductance "C"	4,34 NI/s bar	Valore conduttanza "C"	4,34 NI/s bar
	Critical pressure ratio "b"	0,212	Rapporto critico delle pressioni "b"	0,212
	5/2 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 5/2	
	Fixing	n°3 holes Ø 4,25 manifold system pp. 30 ÷ 31, 33.	Fissaggio	n°3 fori laterali Ø 4,25 su collettore vedi p. 33
	Nominal air flow	1080 NI/min	Portata nominale	1080 NI/min
	Fluid conductance "C"	4,34 NI/s bar	Valore conduttanza "C"	4,34 NI/s bar
	Critical pressure ratio "b"	0,212	Rapporto critico delle pressioni "b"	0,212
	5/3 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 5/3	
	Fixing	n°3 holes Ø 4,25 manifold system pp. 30 ÷ 31, 33.	Fissaggio	n°3 fori laterali Ø 4,25 su collettore vedi p. 33
	Nominal air flow	800 NI/min	Portata nominale	800 NI/min
	Fluid conductance "C"	3,22 NI/s bar	Valore conduttanza "C"	3,22 NI/s bar
	Critical pressure ratio "b"	0,265	Rapporto critico delle pressioni "b"	0,265

VALVES AND SOLENOID VALVES **G1/2** SERIES / VALVOLE ED ELETTROVALVOLE SERIE **G1/2**

G1/2	Port connections	G1/2	Connessioni di lavoro	G1/2
	Pilot connections	G1/8	Connessioni operatori	G1/8
	Flow section	Ø 15 mm	Diametro nominale	Ø 15 mm
	Environment temperature range	-10 °C ÷ +50 °C	Temperatura ambiente	-10 °C ÷ +50 °C
	Temperature range of medium	0 °C ÷ +40 °C	Temperatura fluido	0 °C ÷ +40 °C
	Lubrication	Not required	Lubrificazione	Non necessaria
	Medium	Filtered air	Fluido	Aria filtrata
	Reference temperature	+20 °C	Temperatura nominale	+20 °C
	Reference pressure	6 bar	Pressione nominale	6 bar
	3/2 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 3/2	
	Fixing	n°3 holes Ø 5,5	Fissaggio	n°3 fori laterali Ø 5,5
	Nominal air flow	3500 NI/min	Portata nominale	3500 NI/min
	Fluid conductance "C"	12,88 NI/s bar	Valore conduttanza "C"	12,88 NI/s bar
	Critical pressure ratio "b"	0,393	Rapporto critico delle pressioni "b"	0,393
	5/2 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 5/2	
	Fixing	n°3 holes Ø 5,5	Fissaggio	n°3 fori laterali Ø 5,5
	Nominal air flow	3500 NI/min	Portata nominale	3500 NI/min
	Fluid conductance "C"	12,88 NI/s bar	Valore conduttanza "C"	12,88 NI/s bar
	Critical pressure ratio "b"	0,396	Rapporto critico delle pressioni "b"	0,396
	5/3 VALVES AND SOLENOID VALVES		VALVOLE ED ELETTROVALVOLE 5/3	
	Fixing	n°3 holes Ø 5,5	Fissaggio	n°3 fori laterali Ø 5,5
	Nominal air flow	3000 NI/min	Portata nominale	3000 NI/min
	Fluid conductance "C"	10,76 NI/s bar	Valore conduttanza "C"	3,22 NI/s bar
	Critical pressure ratio "b"	0,42	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)
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
G 1/4"	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
G 1/2"	V32V1P612	4 bar (10 bar)	12 Hz	2,2 ÷ 10 bar
	V32V1P912	4 bar (10 bar)	12 Hz	2,2 ÷ 10 bar
	V32V1P6M2	2,85 bar	8 Hz	1,5 ÷ 10 bar
	V32V1P9M2	2,85 bar	8 Hz	1,5 ÷ 10 bar
	V32V2P012	1,3 bar	14 Hz	1,2 ÷ 10 bar
	V52V1P012	4 bar (10 bar)	12 Hz	2,5 ÷ 10 bar
	V52V1PM12	2,85 bar	7 Hz	1,5 ÷ 10 bar
	V52V2P012	1,3 bar	13 Hz	1,5 ÷ 10 bar
	V53V2P612	3,2 bar	6 Hz	1,5 ÷ 10 bar
	V53V2P912	3,2 bar	6 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
G 1/4"	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
G 1/2"	E32W1S612	43 ms	45 ms	55 ms	55 ms	13 Hz	12 Hz	2,2 ÷ 10 bar
	E32W1S912	43 ms	45 ms	55 ms	55 ms	13 Hz	12 Hz	2,2 ÷ 10 bar
	E32W1S6M2	47 ms	49 ms	60 ms	60 ms	8 Hz	8 Hz	2,5 ÷ 10 bar
	E32W1S9M2	47 ms	49 ms	60 ms	60 ms	8 Hz	8 Hz	2,5 ÷ 10 bar
	E32W2S012	22 ms	26 ms	22 ms	26 ms	16 Hz	15 Hz	1,2 ÷ 10 bar
	E52W1S012	47 ms	49 ms	58 ms	58 ms	11 Hz	10 Hz	2,5 ÷ 10 bar
	E52W1SM12	47 ms	49 ms	60 ms	60 ms	8 Hz	8 Hz	2,5 ÷ 10 bar
	E52W2S012	24 ms	28 ms	24 ms	28 ms	14 Hz	13 Hz	1,5 ÷ 10 bar
	E53W2S612	49 ms	49 ms	60 ms	60 ms	6 Hz	6 Hz	3 ÷ 10 bar
	E53W2S912	49 ms	49 ms	60 ms	60 ms	6 Hz	6 Hz	3 ÷ 10 bar

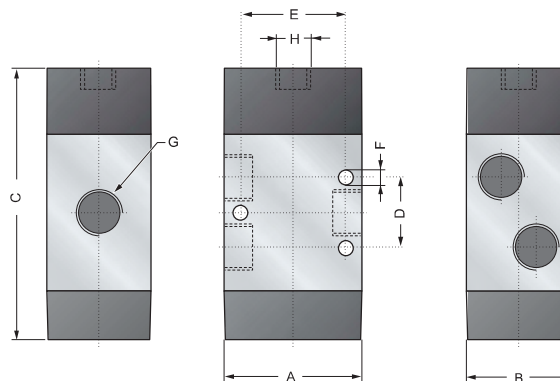
For electrical features solenoid pilot see pp. B-35 and B-37.
Caratteristiche elettriche elettrovalvole per solenoide vedi pp. B-35 e B-37.



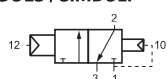
V32V1P . 1.



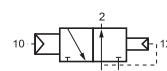
VALVE / VALVOLA 3/2 SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA



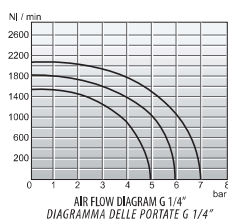
SIMBOLS / SIMBOLI



V32V1P61.

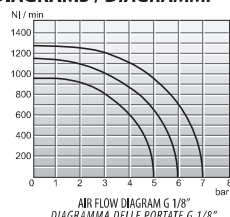


V32V1P91.

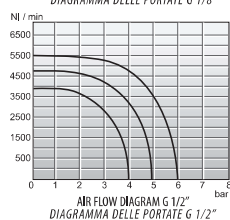


AIR FLOW DIAGRAM G 1/4"
DIAGRAMMA DELLE PORTATE G 1/4"

DIAGRAMS / DIAGRAMMI



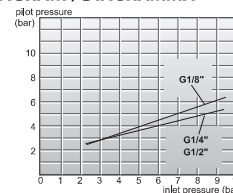
AIR FLOW DIAGRAM G 1/8"
DIAGRAMMA DELLE PORTATE G 1/8"



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

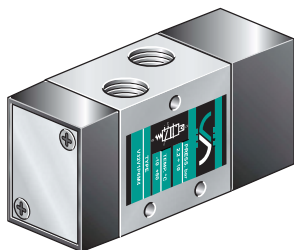
Size Taglia	A	B	C	D	E	ØF	G	H
G1/8	30	26	74	18	23	4,25	G1/8	G1/8
G1/4	40	30	81,5	20	30	4,25	G1/4	G1/8
G1/2	60	40	127	40	50	5,5	G1/2	G1/8

DIAGRAM / DIAGRAMMA

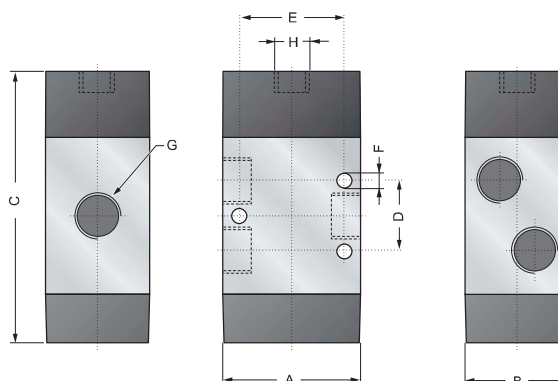


PILOT PRESSURE
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

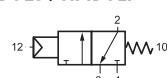
V32V1P . M.



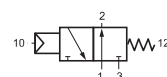
VALVE / VALVOLA 3/2 SINGLE PNEUMATIC PILOT - SPRING RETURN COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA MECCANICA



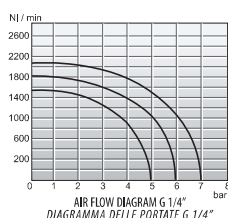
SIMBOLS / SIMBOLI



V32V1P6M.

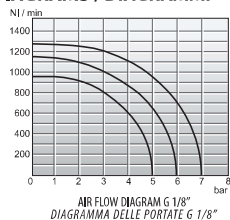


V32V1P9M.

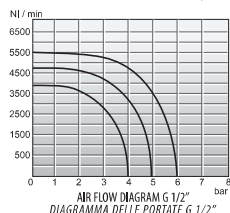


AIR FLOW DIAGRAM G 1/4"
DIAGRAMMA DELLE PORTATE G 1/4"

DIAGRAMS / DIAGRAMMI



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

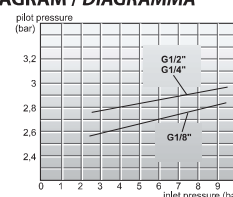


AIR FLOW DIAGRAM G 1/2"
DIAGRAMMA DELLE PORTATE G 1/2"

(*) 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

DIAGRAM / DIAGRAMMA



PILOT PRESSURE
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

VALVE / VALVOLA 3/2
DOUBLE PNEUMATIC PILOT / DOPPIO COMANDO PNEUMATICO

V32V2P01.

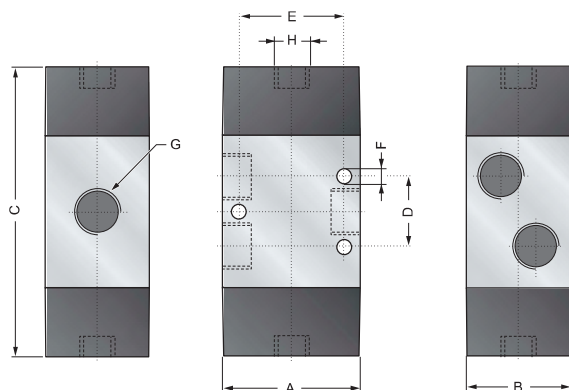
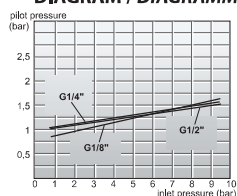


DIAGRAM / DIAGRAMMA

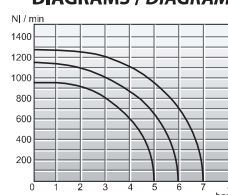


PILOT PRESSURE
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

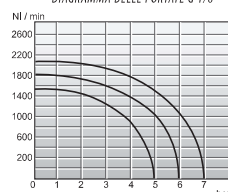
(*) ATEX versions see / Versioni ATEX vedi P. B-113

Size Taglia	A	B	C	D	E	ØF	G	H
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

DIAGRAMS / DIAGRAMMI

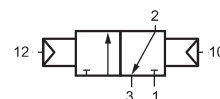


AIR FLOW DIAGRAM G 1/8"
DIAGRAMMA DELLE PORTATE G 1/8"



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

SIMBOL / SIMBOLO



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

V52V1P . 1.

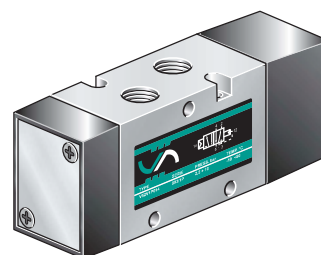
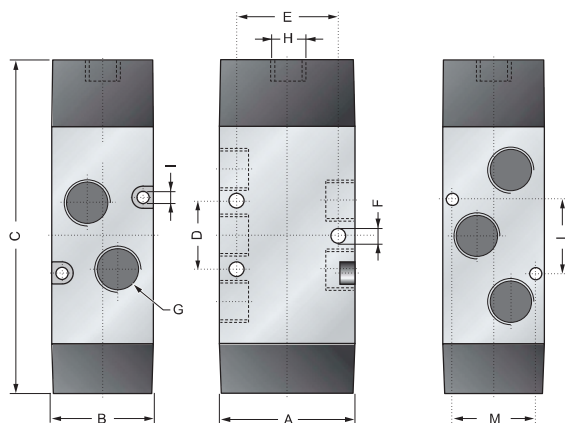
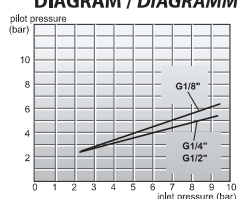


DIAGRAM / DIAGRAMMA

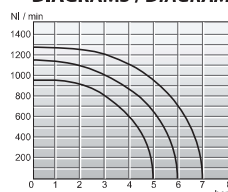


PILOT PRESSURE
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

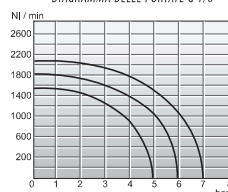
(*) ATEX versions see / Versioni ATEX vedi P. B-113

Size Taglia	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	30	26	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	—	—	—

DIAGRAMS / DIAGRAMMI

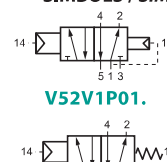


AIR FLOW DIAGRAM G 1/8"
DIAGRAMMA DELLE PORTATE G 1/8"



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

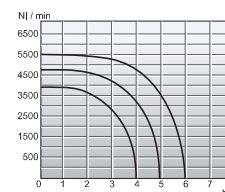
SIMBOLS / SIMBOLI



V52V1P01.



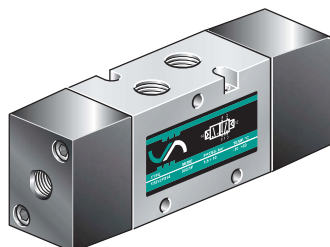
(*) **V52V1PM1.**



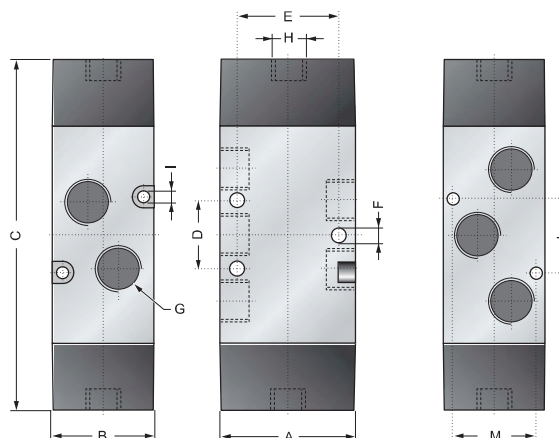
AIR FLOW DIAGRAM G 1/2"
DIAGRAMMA DELLE PORTATE G 1/2"



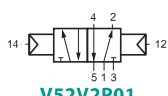
V52V2P . 1.



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



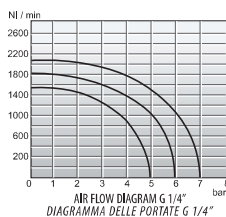
SIMBOLS / SIMBOLI



V52V2P01.

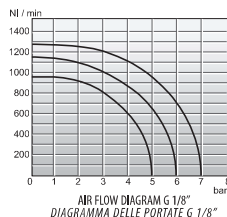


V52V2PD1.

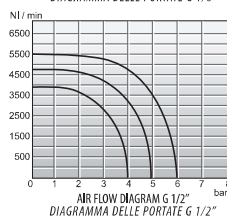


AIR FLOW DIAGRAM G 1/4"
DIAGRAMMA DELLE PORTATE G 1/4"

DIAGRAMS / DIAGRAMMI



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

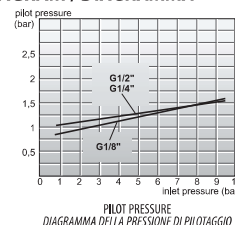


AIR FLOW DIAGRAM G 1/2"
DIAGRAMMA DELLE PORTATE G 1/2"

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

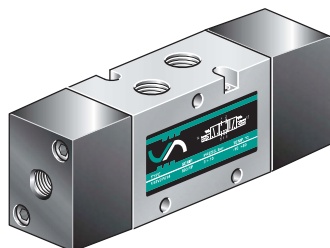
Size	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	30	26	96	18	23	4,25	G1/8	G1/8	3,25	28,6	20
(*) 1/4	40	30	105	20	30	4,25	G1/4	G1/8	3,25	21	24,6
(*) 1/2	60	40	172	40	50	5,5	G1/2	G1/8	—	—	—

DIAGRAM / DIAGRAMMA

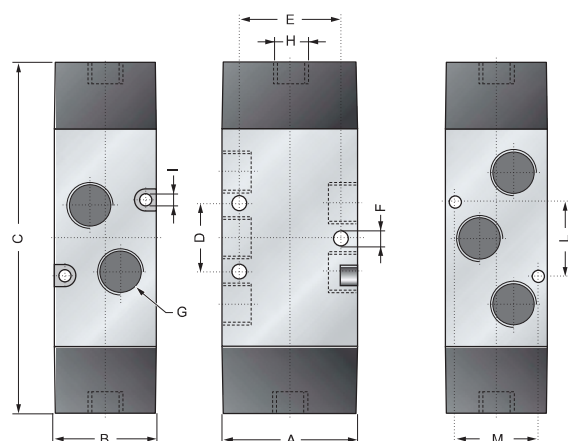


PILOT PRESSURE
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

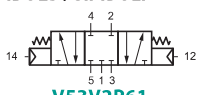
V53V2P . 1.



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



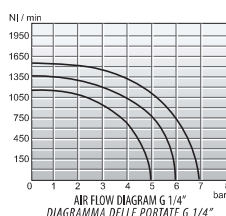
SIMBOLS / SIMBOLI



V53V2P61.

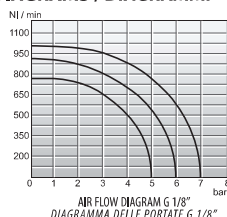


V53V2P91.

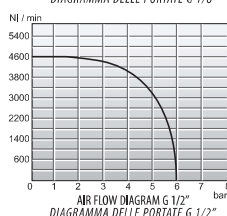


AIR FLOW DIAGRAM G 1/4"
DIAGRAMMA DELLE PORTATE G 1/4"

DIAGRAMS / DIAGRAMMI



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

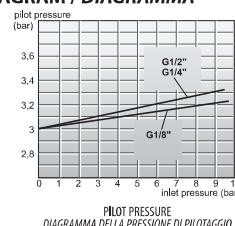


AIR FLOW DIAGRAM G 1/2"
DIAGRAMMA DELLE PORTATE G 1/2"

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

Size	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

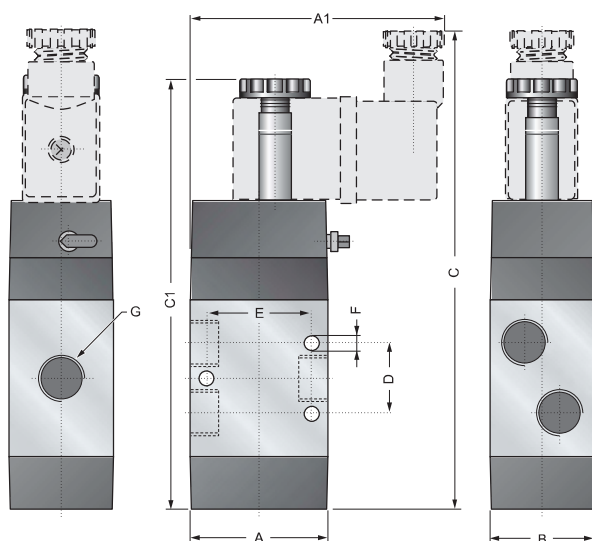


PILOT PRESSURE
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

SOLENOID VALVE / 3/2

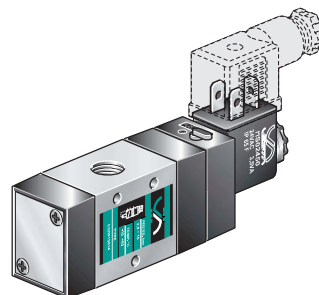
SINGLE SOLENOID VALVE - INTERNAL PRESSURE RETURN

COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO MOLLA PNEUMATICA

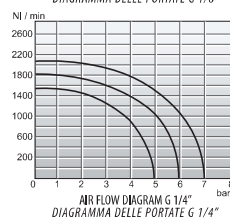
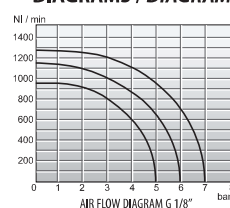


Size Taglia	A	A1	B	C	C1	D	E	ØF	G
1/8	30	63	26	133	119	18	23	4,25	G1/8
1/4	40	73	30	140	125	20	30	4,25	G1/4
1/2	60	60	40	181	167	40	50	5,5	G1/2

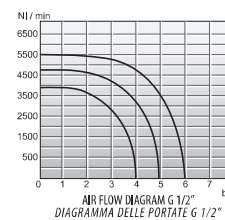
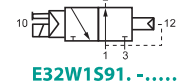
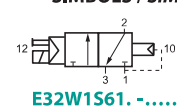
E32W1S.1. -



DIAGRAMS / DIAGRAMMI



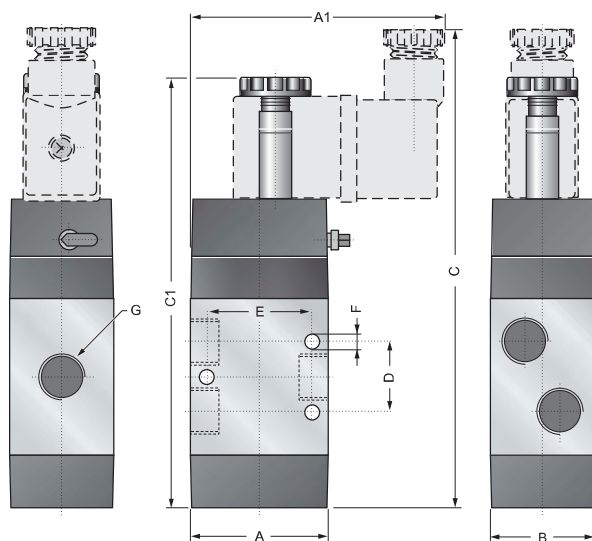
SIMBOLS / SIMBOLI



SOLENOID VALVE / ELETTROVALVOLA 3/2

SINGLE SOLENOID VALVE - SPRING RETURN

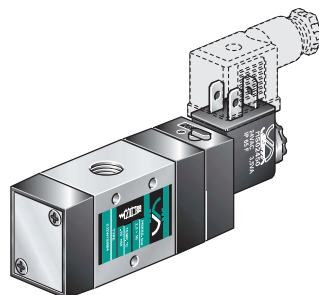
COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO MOLLA MECCANICA



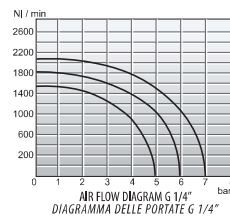
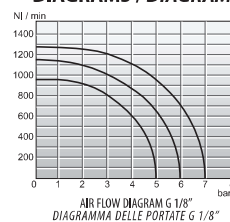
Size Taglia	A	A1	B	C	C1	D	E	ØF	G
1/8	30	63	26	133	119	18	23	4,25	G1/8
(*) 1/4	40	73	30	140	125	20	30	4,25	G1/4
(*) 1/2	60	60	40	172	158	40	50	5,5	G1/2

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

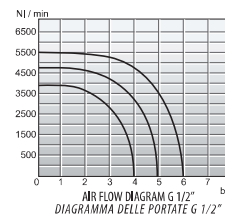
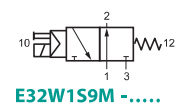
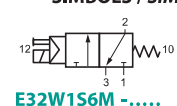
E32W1S.M. -



DIAGRAMS / DIAGRAMMI

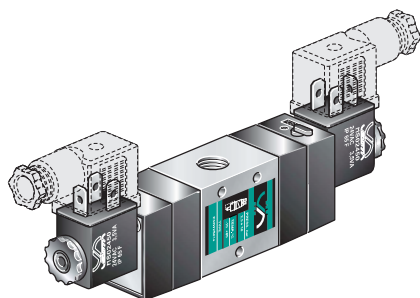


SIMBOLS / SIMBOLI

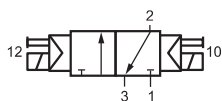




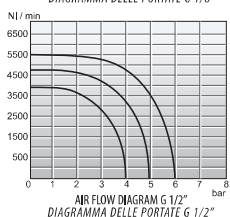
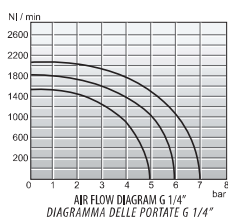
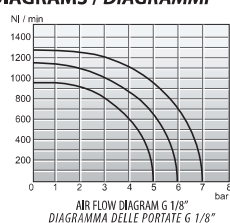
E32W2S01. -



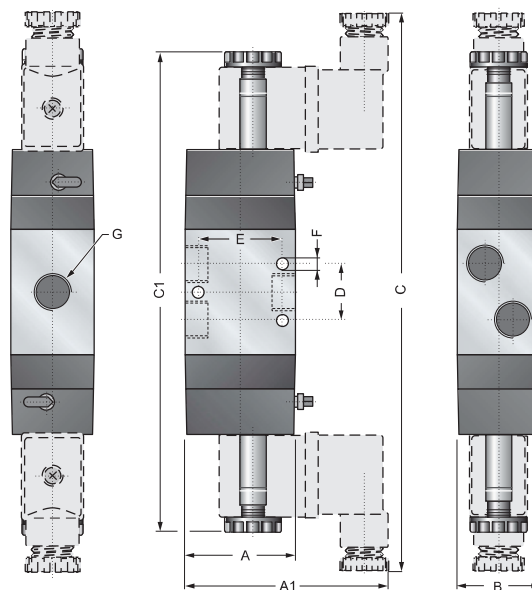
SIMBOL / SIMBOLO



DIAGRAMS / DIAGRAMMI



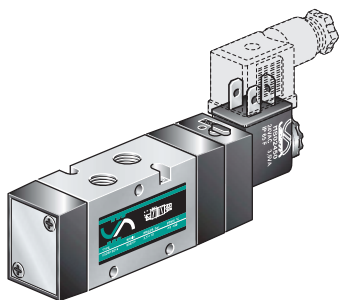
SOLENOID VALVE / 3/2 DOUBLE SOLENOID VALVE / DOPPIO COMANDO ELETTROPNEUMATICO



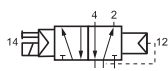
(*) ATEX versions see / Versioni ATEX vedi P. B-113

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

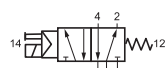
E52W1S. 1. -



SIMBOLS / SIMBOLI

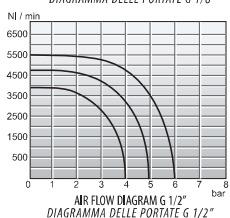
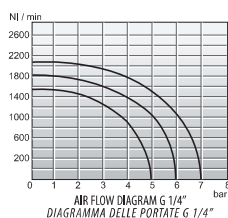
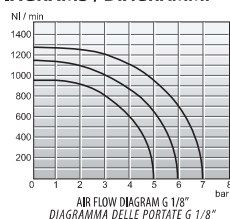


E52W1S01. -

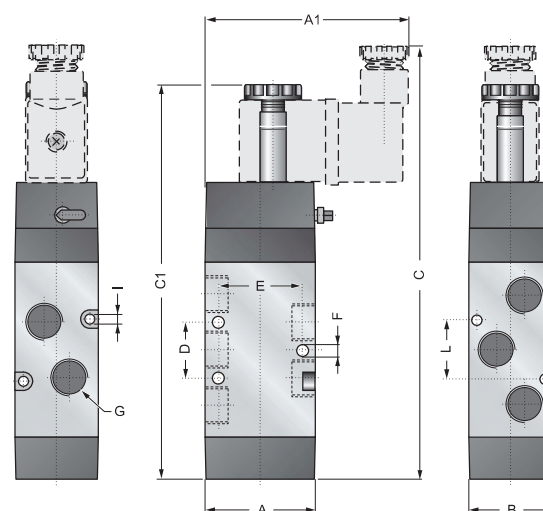


(*) E52W1SM1. -

DIAGRAMS / DIAGRAMMI



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

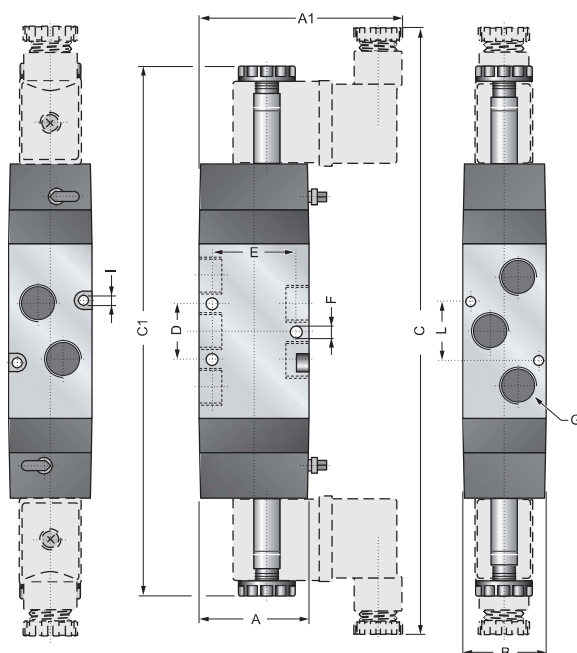


(*) ATEX versions see / Versioni ATEX vedi P. B-113

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

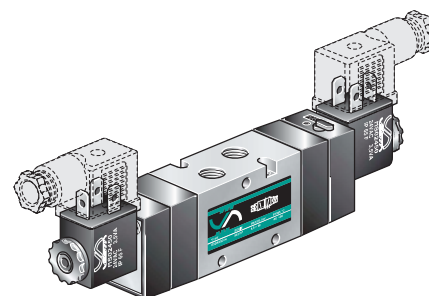
DOUBLE SOLENOID VALVE / DOPPIO COMANDO ELETTROPNEUMATICO



Size Taglia	A	A1	B	C	C1	D	E	ØF	G	Ø1	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	—	—

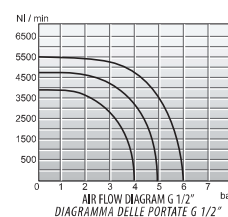
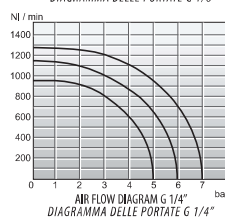
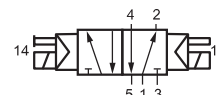
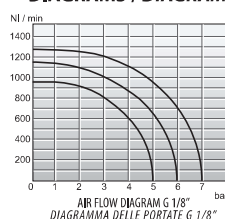
(*) ATEX versions see P. B-113
Versioni ATEX vedi P. B-113

E52W2S01. -



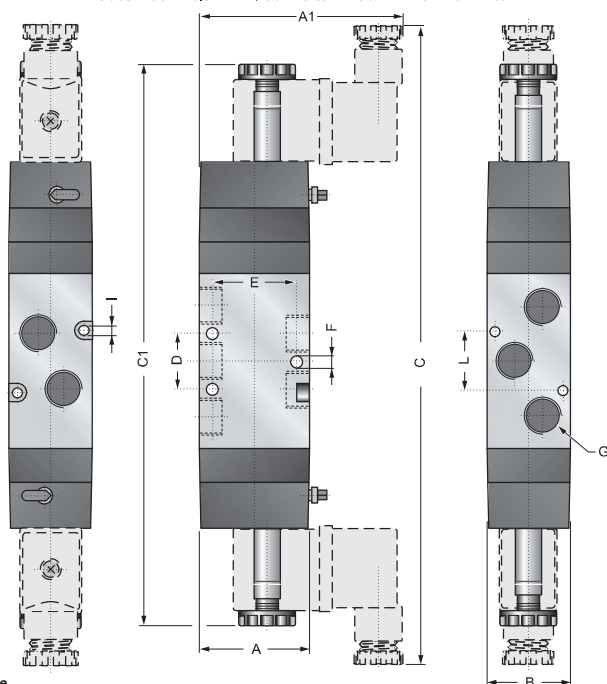
DIAGRAMS / DIAGRAMMI

SIMBOL / SIMBOLO



SOLENOID VALVE / 5/3

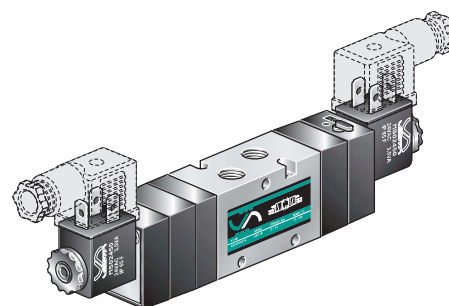
DOUBLE SOLENOID VALVE / DOPPIO COMANDO ELETTROPNEUMATICO



Size Taglia	A	A1	B	C	C1	D	E	ØF	G	Ø1	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	—	—

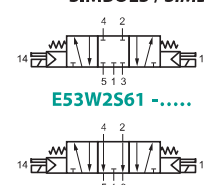
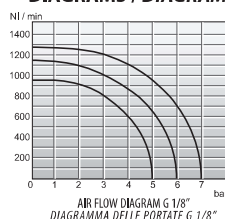
(*) ATEX versions see P. B-113
Versioni ATEX vedi P. B-113

E53W2S.1. -



DIAGRAMS / DIAGRAMMI

SIMBOLS / SIMBOLI



E53W2S61 -

E53W2S91 -

