



## DESIGN FEATURES / CARATTERISTICHE COSTRUTTIVE

Mini-valves and solenoid valves of **K** series are designed in compact dimensions and therefore they are proper to be assembled on manifolds.

Every single part and component has been developed to achieve the best performances.

**K** series can operate continuously without lubrication (**A**). The spool in light alloy is manufactured to grant low inertia (**B**). All the internal moving parts are designed to reduce friction.

**S0, K** series grants lasting durability and high working frequency (**E**). For a better resistance to external aggressive agents we perform on the body a nickel treatment (**C**).

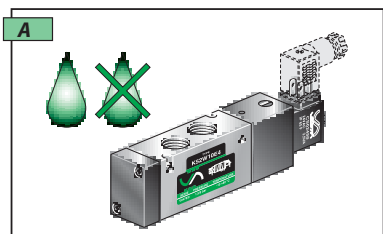
Despite of its small dimensions, the nominal air flow of the valve is around 730, 1300, 4000 NL/min. (**D**).

The solenoid valves, complete with coil and connector, follow EEC directives on the electromagnetic compatibility (89/336/EEC) and low voltage (73/23/EEC).

*Le mini valvole ed elettrovalvole Vesta serie **K** funzionano secondo il principio del cassetto bilanciato (vedi fig. 1 e 2), presentano ingombri molto ridotti e la possibilità di assemblaggio in batterie compatte.*

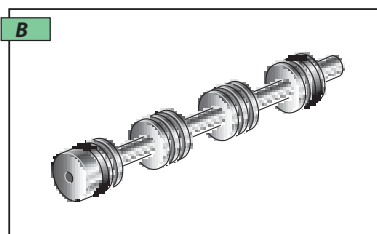
*Particolare cura è stata prestata nella progettazione e realizzazione di ogni singolo componente del prodotto, al fine di consentire elevate prestazioni funzionali. Caratteristiche comuni a tutte le valvole della serie sono l'alta velocità di scambio (**E**), la possibilità di funzionamento continuo privo di lubrificazione (**A**) ottenuto con l'impiego di materiali particolari come, ad esempio, la spola, realizzata in lega leggera (**B**), ed il corpo, in alluminio trattato al nichel (**C**). Tutto ciò garantisce una elevata frequenza di lavoro e una lunga vita del sistema, grazie ad una riduzione dell'inerzia delle parti mobili, ad una riduzione degli attriti interni e ad un maggior grado di resistenza agli agenti aggressivi esterni. Particolarmente interessante, nonostante le ridotte dimensioni, la portata nominale: 730, 1300, 4000 NL/min. (**D**).*

*Le elettrovalvole complete di bobina e connettore, sono conformi alle direttive CEE relative alla compatibilità elettromagnetica (89/336/CEE) ed alla bassa tensione (73/23/CEE).*



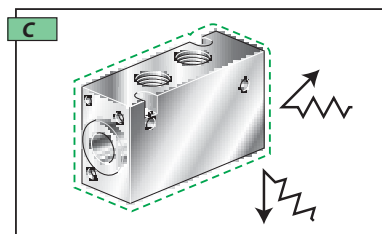
Possibility to operate continuously without lubrication.

*Possibilità di funzionamento continuo privo di lubrificazione.*



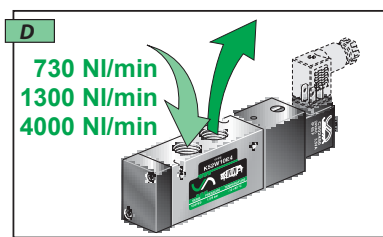
Light alloy spool.

*Spola in lega leggera.*



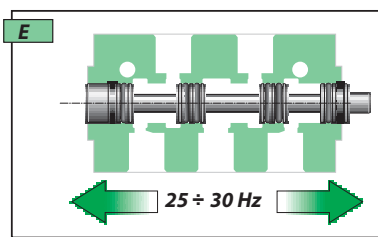
Nickel treated body.

*Corpo in alluminio trattato al nichel.*



Nominal air flow: (730, 1300, 4000 NI/min).

*Alta portata nominale: (730, 1300, 4000 NI/min a 6 bar).*



High working frequency.

*Alta velocità di scambio.*

## WORKING PRINCIPLE / PRINCIPIO DI FUNZIONAMENTO

In the below example ( **K52W1018-02450** - 5/2 valve, single solenoid, spring return ), when the valve stands in the normal position, ports **4 - 5** and **1 - 2** are connected and the position is kept thanks to the pressure applied to the smallest piston and thanks to the spring force (right side of the valve). When the valve is actuated, the same pressure is fed to the biggest piston. Its bigger surface creates a force which allows to the spool to move and therefore to connect ports **4 - 1** and **2 - 3**. Spring return grants the normal position of the spool even without inlet pressure.

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 l'elettrovalvola **K52W1018-02450** con comando elettropneumatico e riposizionamento a molla) consiste nel mantenere la spola in posizione di riposo per azione sia di una molla meccanica che per effetto della pressione creata dalla fonte d'aria compressa presente nel condotto di alimentazione **1** sulla spola stessa ( fig. 1 ) collegando le vie **1 - 2** e **4 - 5**.*

*L'eccitazione del solenoide mette in comunicazione il condotto **1** con la camera dove è alloggiato il pistone di comando. Quest'ultimo contrasta l'insieme delle forze create dalla molla e dalla pressione sul lato opposto della spola, spostandola in modo tale da collegare i canali **1 - 4** e **2 - 3** ( fig. 2 ).*

*Diseccitando il solenoide si ripristina la posizione iniziale. La combinazione del sistema a molla meccanica con il riposizionamento pneumatico consente di avere sempre la spola in posizione di riposo anche dopo la caduta di pressione del sistema.*

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

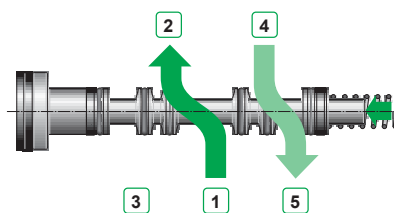
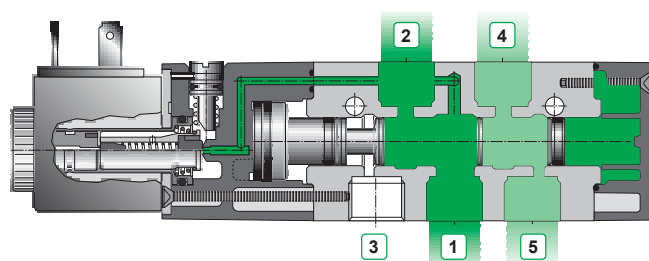


fig. 1

NORMAL POSITION / POSIZIONE A RIPOSO

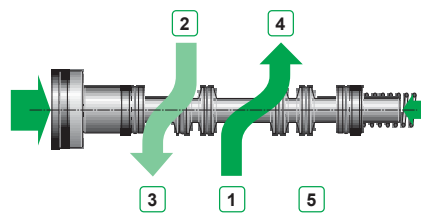
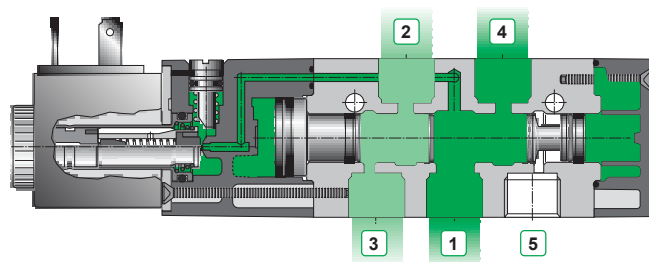
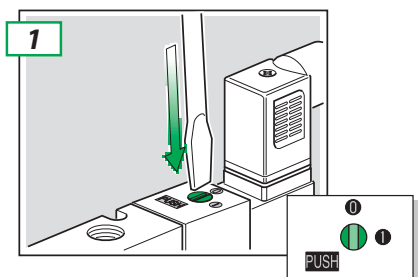


fig. 2

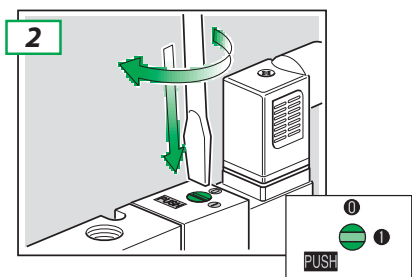
ACTUATED POSITION / POSIZIONE DI LAVORO

## MANUAL OVERRIDING / AZIONAMENTO COMANDO MANUALE



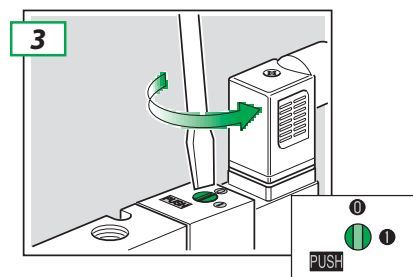
Push to actuate valve without locking. **Release the button to get back to normal position.**

*Per azionare la valvola, durante la fase di collaudo con pressione in linea senza collegamento elettrico, usare un adeguato cacciavite per premere la vite del comando manuale. **Rilasciare per ripristinare la condizione di riposo.***



To actuate the valve permanently, push the M/O using a screwdriver and rotate clockwise 90°.

*Per azionare la valvola in modo permanente premere la vite del comando manuale e ruotare in senso orario sino alla posizione 1.*



To get back to normal position push the M/O again and turn 90° anti-clockwise.

*Ruotare in senso antiorario la vite del comando manuale per ripristinare la condizione di riposo.*



## SERIE K

## TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

### COMMON TECHNICAL FEATURES K SERIE / CARATTERISTICHE TECNICHE COMUNI SERIE K

<b>Port connections</b> .....	<b>G1/8, G1/4</b>	<b>Connessioni di lavoro</b> .....	<b>G1/8, G1/4</b>
Flow section .....	<b>G1/8"</b> = Ø 6 mm	Diametro nominale .....	<b>G1/8"</b> = Ø 6 mm
	<b>G1/4"</b> = Ø 8 mm		<b>G1/4"</b> = Ø 8 mm
	<b>G1/2"</b> = Ø 14 mm		<b>G1/2"</b> = Ø 14 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 pressure .....	6 bar	Pressione nominale .....	6 bar
Nominal air flow 3/2 and 5/2 valves (valves 5/3) .....	<b>G1/8"</b> : 730 (552) NI/min <b>G1/4"</b> : 1300 (1040) NI/min <b>G1/2"</b> : 4000 (3500) NI/min	Portata nominale valvole 3/2 e 5/2 (valvole 5/3) .....	<b>G1/8"</b> : 730 (552) NI/min <b>G1/4"</b> : 1300 (1040) NI/min <b>G1/2"</b> : 4000 (3500) NI/min

### PNEUMATIC VALVES FEATURES / CARATTERISTICHE VALVOLE PNEUMATICHE

G 1/8"		K32P1618	K32P1918	K32P2018	K52P1018	K52DP218	K52P2018	K53P2318	K53P2618	K53P2918
	Nominal pilot pressure (bar) Pressione di pilotaggio nominale (bar)		3,1 bar (9 bar)	3,1 bar (9 bar)	0,97 bar	3,1 bar (9 bar)	(12) 1,35 bar (14) 0,97 bar	0,97 bar	3 bar	3 bar
Nominal max frequency (Hz) Frequenza max nominale (Hz)		30 Hz	30 Hz	33 Hz	30 Hz	30 Hz	33 Hz	10 Hz	10 Hz	10 Hz
Operating pressure range (bar) Pressione di esercizio (bar)		2,5 ÷ 9 bar	2,5 ÷ 9 bar	0 ÷ 9 bar	2,5 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar

G 1/4"		K32P1614	K32P1914	K32P2014	K52P1014	K52DP214	K52P2014	K53P2314	K53P2614	K53P2914
	Nominal pilot pressure (bar) Pressione di pilotaggio nominale (bar)		3,1 bar (9 bar)	3,1 bar (9 bar)	0,97 bar	3,1 bar (9 bar)	(12) 1,35 bar (14) 0,97 bar	0,97 bar	3 bar	3 bar
Nominal max frequency (Hz) Frequenza max nominale (Hz)		30 Hz	30 Hz	33 Hz	30 Hz	30 Hz	33 Hz	10 Hz	10 Hz	10 Hz
Operating pressure range (bar) Pressione di esercizio (bar)		2,5 ÷ 9 bar	2,5 ÷ 9 bar	0 ÷ 9 bar	2,5 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar

G 1/2"		K32P1612	K32P1912	K32P2012	K52P1012	-	K52P2012	K53P2312	K53P2612	K53P2912
	Nominal pilot pressure (bar) Pressione di pilotaggio nominale (bar)		3,1 bar (9 bar)	3,1 bar (9 bar)	0,97 bar <sup>r</sup>	3,1 bar (9 bar)	-	0,97 bar	3 bar	3 bar
Nominal max frequency (Hz) Frequenza max nominale (Hz)		15 Hz	15 Hz	18 Hz	15 Hz	-	18 Hz	10 Hz	10 Hz	10 Hz
Operating pressure range (bar) Pressione di esercizio (bar)		2,5 ÷ 9 bar	2,5 ÷ 9 bar	0 ÷ 9 bar	2,5 ÷ 9 bar	-	0 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar	0 ÷ 9 bar

### SOLENOID VALVES FEATURES / CARATTERISTICHE ELETTROVALVOLE

G 1/8"		K32W15618	K32W1918	K32W25018	K52W1018	K52W2018	K52W10E8	K52W20E8	K53W25318	K53W25618	K53W25918	K66W2018	K99W2018
	Nominal max frequency (Hz) Frequenza max nominale (Hz)		27Hz AC 17Hz DC	27Hz AC 17Hz DC	42Hz AC 34Hz DC	27Hz AC 17Hz DC	42Hz AC 34Hz DC	27Hz AC 17Hz DC	42Hz AC 34Hz DC	12Hz AC 10Hz DC	12Hz AC 10Hz DC	12Hz AC 10Hz DC	27Hz AC 17Hz DC
Operating pressure range (bar) Pressione di esercizio (bar)		2,5÷9 bar	2,5÷9 bar	1,5÷9 bar	2,5÷9 bar	1,5÷9 bar	0÷9 bar	0÷9 bar	3÷9 bar	3÷9 bar	3÷9 bar	3÷9 bar	3÷9 bar
External pilot port Connessione di pilotaggio esterna		-	-	-	-	-	M5	M5	-	-	-	-	-
Pilot pressure Pressione di pilotaggio		-	-	-	-	-	3÷9 bar	3÷9 bar	-	-	-	-	-

G 1/4"		K32W15614	K32W1914	K32W25014	K52W1014	K52W2014	K52W10E4	K52W20E4	K53W25314	K53W25614	K53W25914	K66W2014	K99W2014
	Nominal max frequency (Hz) Frequenza max nominale (Hz)		27Hz AC 17Hz DC	27Hz AC 17Hz DC	42Hz AC 34Hz DC	27Hz AC 17Hz DC	42Hz AC 34Hz DC	27Hz AC 17Hz DC	42Hz AC 34Hz DC	12Hz AC 10Hz DC	12Hz AC 10Hz DC	12Hz AC 10Hz DC	27Hz AC 17Hz DC
Operating pressure range (bar) Pressione di esercizio (bar)		2,5÷9 bar	2,5÷9 bar	1,5÷9 bar	2,5÷9 bar	1,5÷9 bar	0÷9 bar	0÷9 bar	3÷9 bar	3÷9 bar	3÷9 bar	3÷9 bar	3÷9 bar
External pilot port Connessione di pilotaggio esterna		-	-	-	-	-	M5	M5	-	-	-	-	-
Pilot pressure Pressione di pilotaggio		-	-	-	-	-	3÷9 bar	3÷9 bar	-	-	-	-	-

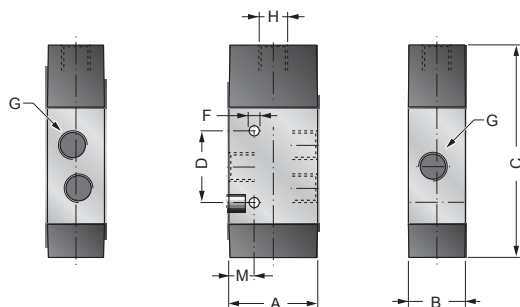
G 1/2"		K32W15612	K32W1912	K32W25012	K52W1012	K52W2012	K52W10E2	K52W20E2	K53W25312	K53W25612	K53W25912
	Nominal max frequency (Hz) Frequenza max nominale (Hz)		13Hz AC 11Hz DC	13Hz AC 11Hz DC	17Hz AC 16Hz DC	13Hz AC 11Hz DC	17Hz AC 16Hz DC	13Hz AC 11Hz DC	17Hz AC 16Hz DC	13Hz AC 8Hz DC	13Hz AC 8Hz DC
Operating pressure range (bar) Pressione di esercizio (bar)		2,5÷9 bar	2,5÷9 bar	1,5÷9 bar	2,5÷9 bar	1,5÷9 bar	0÷9 bar	0÷9 bar	3÷9 bar	3÷9 bar	3÷9 bar
External pilot port Connessione di pilotaggio esterna		-	-	-	-	-	M5	M5	-	-	-
Pilot pressure Pressione di pilotaggio		-	-	-	-	-	3÷9 bar	3÷9 bar	-	-	-

For electrical features solenoid pilot see p. B-52 for G1/8.  
Caratteristiche elettriche elettrovalvole per solenoide vedi p. B-52 per G1/8.

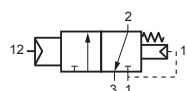
**VALVE / VALVOLA 3/2**

SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN AND SPRING  
 COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA E MECCANICA

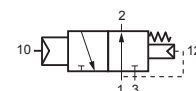
**K32P1.1.**



**SIMBOLS / SIMBOLI**



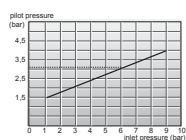
**K32P161.**



**K32P191.**

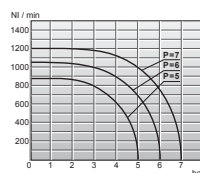
**DIAGRAMS / DIAGRAMMI**

**DIAGRAM / DIAGRAMMA**

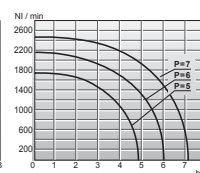


PILOT PRESSURE  
 DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

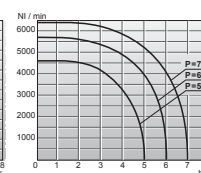
Size Taglia	A	B	C	D	ØF	G	H	ØI	M
1/8	28	18	66,2	22,2	3,2	G1/8	G1/8	3,2	8
1/4	32	22	75,3	29,3	4,2	G1/4	G1/8	3,5	7,3
1/2	50	30	108	45,6	5,2	G1/2	G1/8	-	11



AIR FLOW DIAGRAM G1/8"  
 DIAGRAMMA DELLE PORTATE G1/8"



AIR FLOW DIAGRAM G1/4"  
 DIAGRAMMA DELLE PORTATE G1/4"

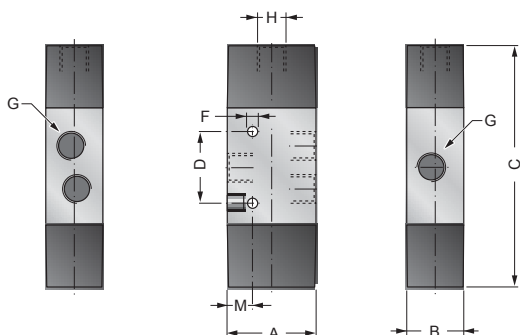


AIR FLOW DIAGRAM G1/2"  
 DIAGRAMMA DELLE PORTATE G1/2"

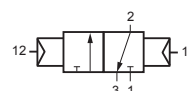
**VALVE / VALVOLA 3/2**

DOUBLE PNEUMATIC PILOT / *DOPIO COMANDO PNEUMATICO*

**K32P201.**



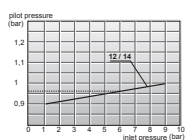
**SIMBOL / SIMBOLO**



**K32P201.**

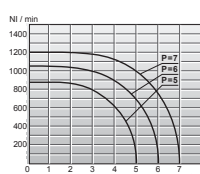
**DIAGRAMS / DIAGRAMMI**

**DIAGRAM / DIAGRAMMA**

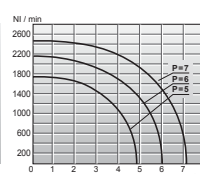


PILOT PRESSURE  
 DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

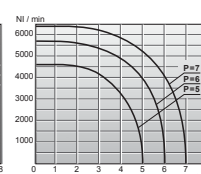
Size Taglia	A	B	C	D	ØF	G	H	ØI	M
1/8	28	18	76,2	22,2	3,2	G1/8	G1/8	3,2	8
1/4	32	22	88,3	29,3	4,2	G1/4	G1/8	3,5	7
1/2	50	30	121	45,6	5,2	G1/2	G1/8	-	11



AIR FLOW DIAGRAM G1/8"  
 DIAGRAMMA DELLE PORTATE G1/8"



AIR FLOW DIAGRAM G1/4"  
 DIAGRAMMA DELLE PORTATE G1/4"

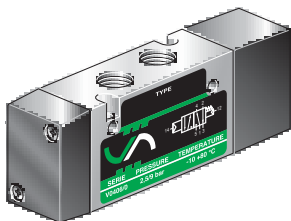


AIR FLOW DIAGRAM G1/2"  
 DIAGRAMMA DELLE PORTATE G1/2"

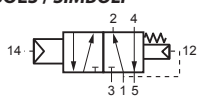
VALVOLE ED ELETTROVALVOLE - VALVES AND SOLENOID VALVES



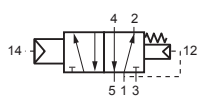
# K52P101.



## SIMBOLS / SIMBOLI

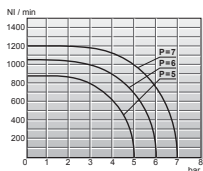


K52P1018

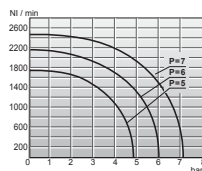


K52P1014 - K52P1012

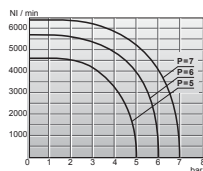
## DIAGRAMS / DIAGRAMMI



AIR FLOW DIAGRAM G1/8"  
DIAGRAMMA DELLE PORTATE G1/8"



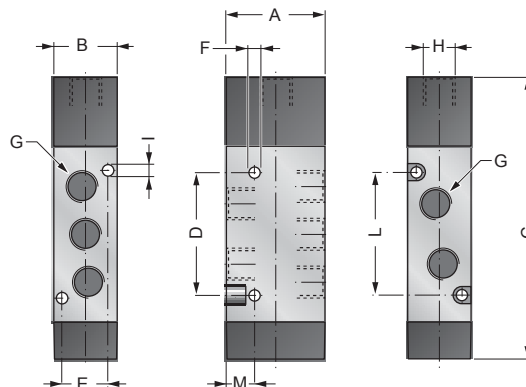
AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"



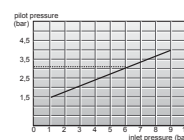
AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"

## VALVE / VALVOLA 5/2

SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN AND SPRING  
COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA E MECCANICA



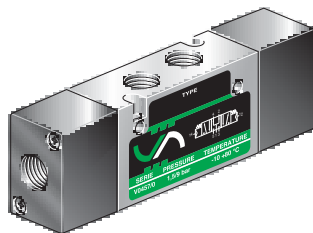
## DIAGRAM / DIAGRAMMA



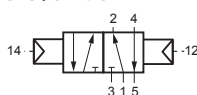
PILOT PRESSURE  
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

Size Taglia	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	80	35	13	3,2	G1/8	G1/8	3,2	35	8
1/4	32	22	96	50	16,2	4,2	G1/4	G1/8	3,5	50	7,3
1/2	50	30	137	74,6	-	5,2	G1/2	G1/8	-	-	11

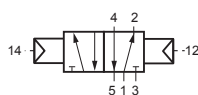
# K52P201.



## SIMBOLS / SIMBOLI

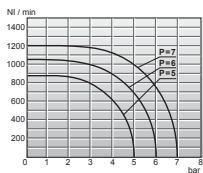


K52P2018

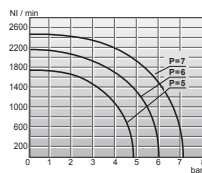


K52P2014 - K52P2012

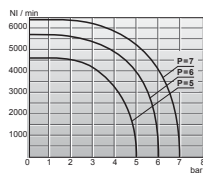
## DIAGRAMS / DIAGRAMMI



AIR FLOW DIAGRAM G1/8"  
DIAGRAMMA DELLE PORTATE G1/8"



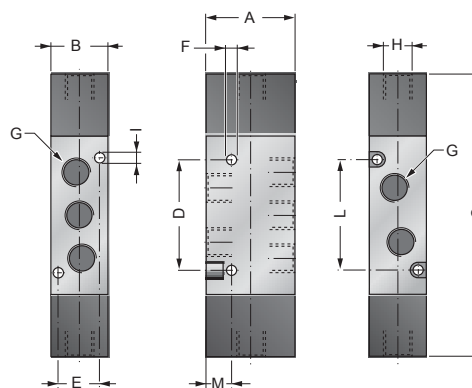
AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"



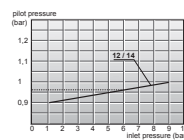
AIR FLOW DIAGRAM G1/2"  
DIAGRAMMA DELLE PORTATE G1/2"

## VALVE / VALVOLA 5/2

DOUBLE PNEUMATIC PILOT / DOPPIO COMANDO PNEUMATICO



## DIAGRAM / DIAGRAMMA

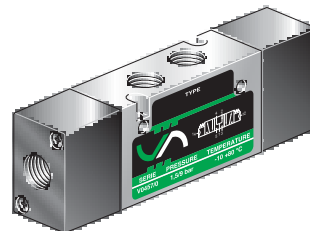
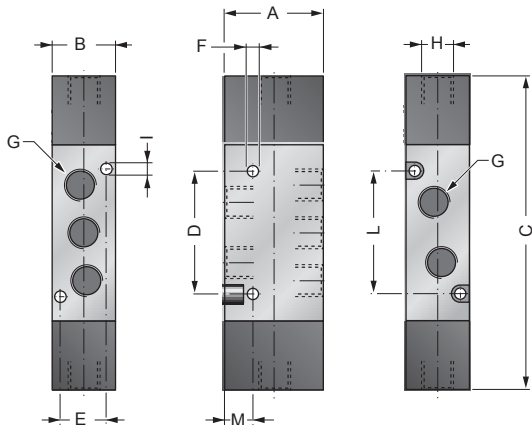


PILOT PRESSURE  
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

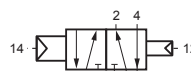
Size Taglia	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	89	35	13	3,2	G1/8	G1/8	3,2	35	8
1/4	32	22	109	50	16,2	4,2	G1/4	G1/8	3,5	50	7,3
1/2	50	30	150	74,6	-	5,2	G1/2	G1/8	-	-	11

**VALVE / 5/2**  
DOUBLE DIFFERENTIAL PNEUMATIC PILOT  
DOPPIO COMANDO PNEUMATICO DIFFERENZIALE

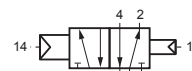
**K52DP21.**



**SIMBOLS /**



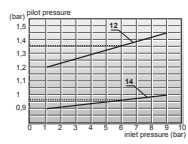
**K52DP218**



**K52DP214**

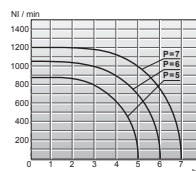
**DIAGRAMS / DIAGRAMMI**

**DIAGRAM / DIAGRAMMA**

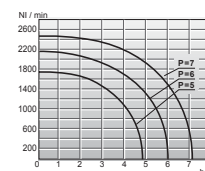


PILOT PRESSURE  
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

Size Taglia	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	89	35	13	3,2	G1/8	G1/8	3,2	35	8
1/4	32	22	109	50	16,2	4,2	G1/4	G1/8	3,5	50	7,3



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

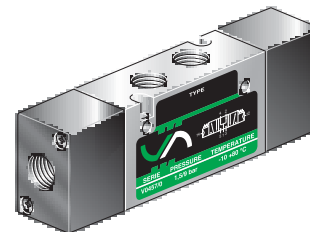
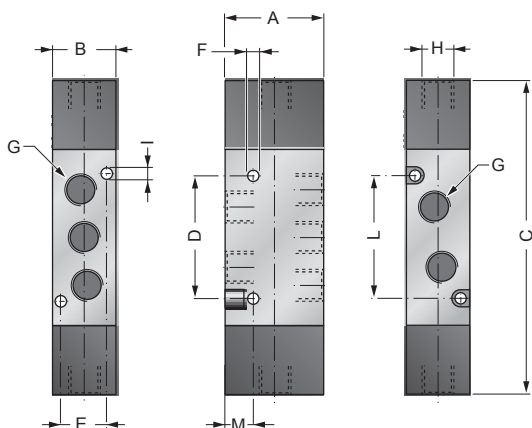


AIR FLOW DIAGRAM G 1/4"  
DIAGRAMMA DELLE PORTATE G 1/4"

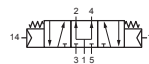
**VALVE / VALVOLA 5/3**

DOUBLE PNEUMATIC PILOT (MID-POSITION PRESSURIZED) / DOPPIO COMANDO PNEUMATICO (CENTRI IN PRESSIONE)  
DOUBLE PNEUMATIC PILOT (MID-POSITION CLOSED) / DOPPIO COMANDO PNEUMATICO (CENTRI CHIUSI)  
DOUBLE PNEUMATIC PILOT (MID-POSITION EXHAUSTED) / DOPPIO COMANDO PNEUMATICO (CENTRI APERTI)

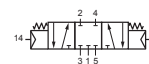
**K53P2.1.**



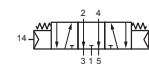
**SIMBOLS / SIMBOLI**



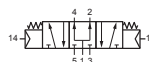
**K53P2318**



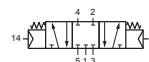
**K53P2618**



**K53P2918**



**K53P2314 - K53P2312**

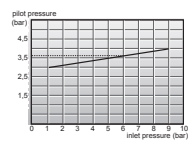


**K53P2614 - K53P2612**



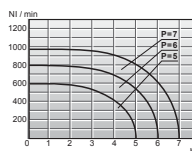
**K53P2914 - K53P2912**

**DIAGRAM / DIAGRAMMA**

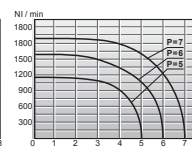


PILOT PRESSURE  
DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

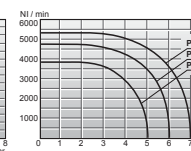
Size Taglia	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	89	35	13	3,2	G1/8	G1/8	3,2	35	8
1/4	32	22	109	50	16,2	4,2	G1/4	G1/8	3,5	50	7,3
1/2	50	30	150	74,6	-	5,2	G1/2	G1/8	-	-	11



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



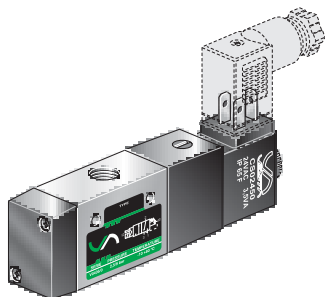
AIR FLOW DIAGRAM G 1/4"  
DIAGRAMMA DELLE PORTATE G 1/4"



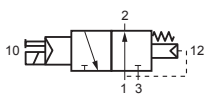
AIR FLOW DIAGRAM G 1/2"  
DIAGRAMMA DELLE PORTATE G 1/2"

VALVOLE ED ELETTROVALVOLE VALVES AND SOLENOID VALVES

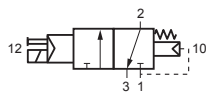
## K32W1S.1.



### SIMBOLS / SIMBOLI

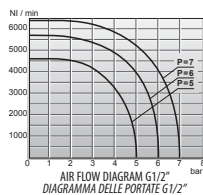
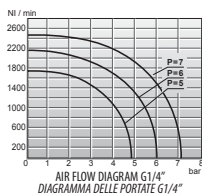
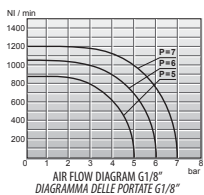


**K32W1S918 - K32W1S914  
K32W1S912**



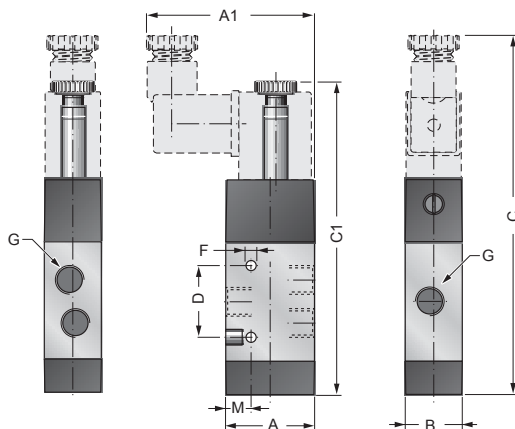
**K32W1S618 - K32W1S614  
K32W1S612**

### DIAGRAMS / DIAGRAMMI



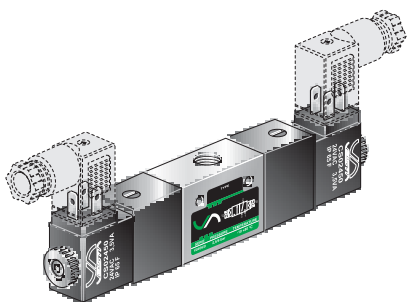
## VALVE / 3/2

SINGLE SOLENOID PILOT - INTERNAL PRESSURE RETURN AND SPRING  
COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA E MECCANICA

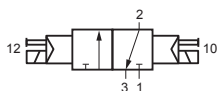


Size	Taglia	A	A1	B	C	C1	D	ØF	G	ØI	M
1/8	28	~53	18	112,5	~99	22,2	3,2	G1/8	3,2	8	
1/4	32	~55	22	121	~107,5	29,3	4,2	G1/4	3,5	7,3	
1/2	50	~75	30	~150	~137	45,6	5,2	G1/2	-	11	

## K32W2S01.

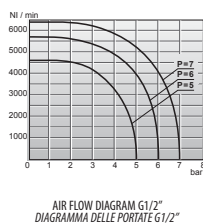
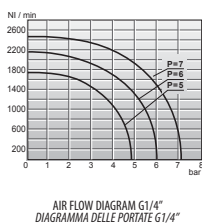
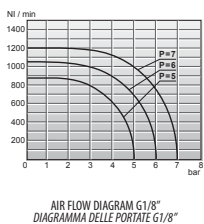


### SIMBOLS / SIMBOLI



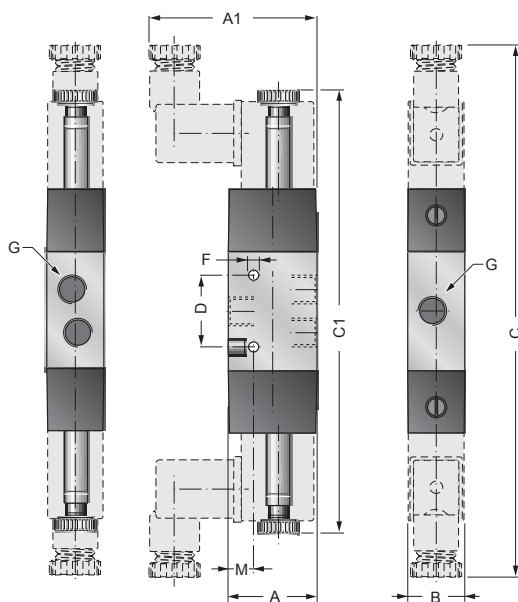
**K32W2S018 - K32W2S014 - K32W2S012**

### DIAGRAMS / DIAGRAMMI



## VALVE / VALVOLA 3/2

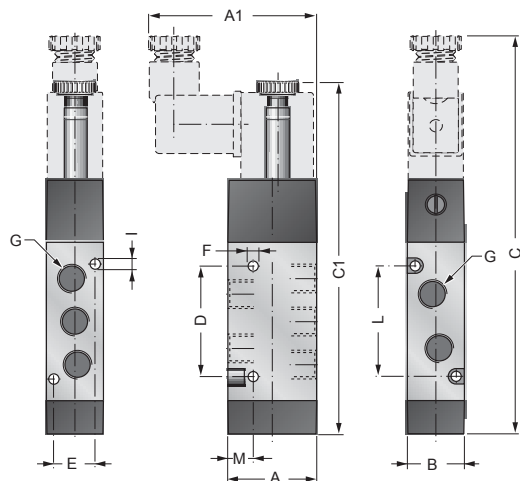
DOUBLE SOLENOID PILOT / DOPPIO COMANDO ELETTROPNEUMATICO



Size	Taglia	A	A1	B	C	C1	D	ØF	G	ØI	M
1/8	28	~53	18	170	~143	22,2	3,2	G1/8	3,2	8	
1/4	32	~55	22	181	~154	29,3	4,2	G1/4	3,5	7,3	
1/2	50	~75	30	~210	~180	45,6	5,2	G1/2	-	11	

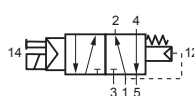
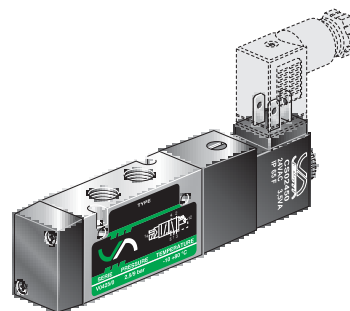
**VALVE / VALVOLA 5/2**

SINGLE SOLENOID PILOT - INTERNAL PRESSURE RETURN AND SPRING  
 COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA E MECCANICA

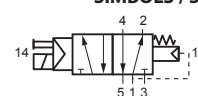


Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	~125,5	112	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	142,5	~129	50	16,2	4,2	G1/4	3,5	50	7,3
1/2	50	~75	30	~180	~166	74,6	-	5,2	G1/2	-	-	11

**K52W101.**



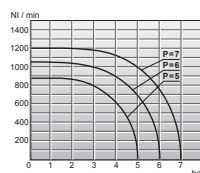
**K52W1018**



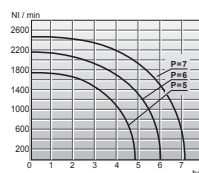
**K52W1014 - K52W1012**

**SIMBOLS / SIMBOLI**

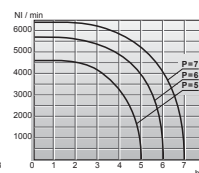
**DIAGRAMS / DIAGRAMMI**



AIR FLOW DIAGRAM G1/8"  
 DIAGRAMMA DELLE PORTATE G1/8"



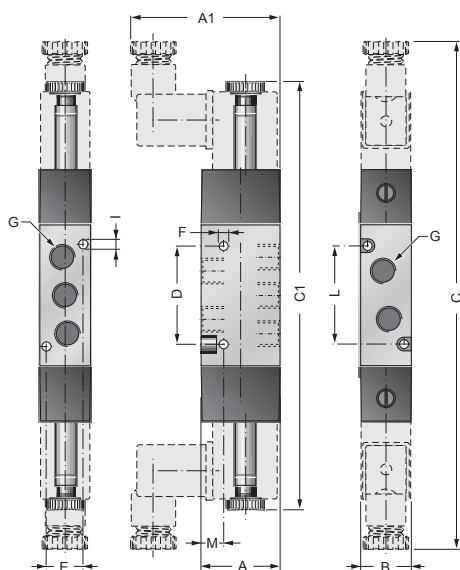
AIR FLOW DIAGRAM G1/4"  
 DIAGRAMMA DELLE PORTATE G1/4"



AIR FLOW DIAGRAM G1/2"  
 DIAGRAMMA DELLE PORTATE G1/2"

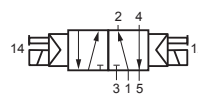
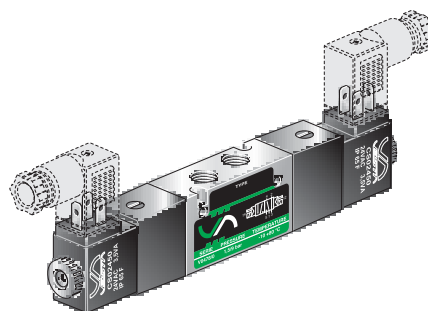
**VALVE / 5/2**

DOUBLE SOLENOID PILOT / DOPPIO COMANDO ELETTROPNEUMATICO

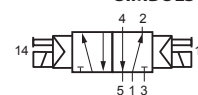


Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	180	~152	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	202	~174	50	16,2	4,2	G1/4	3,5	50	7,3
1/2	50	~75	30	~240	~210	74,6	-	5,2	G1/2	-	-	11

**K52W201.**



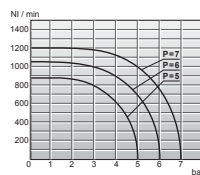
**K52W2018**



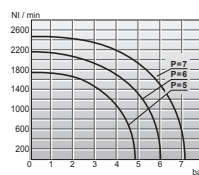
**K52W2014 - K52W2012**

**SIMBOLS / SIMBOLI**

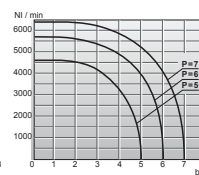
**DIAGRAMS / DIAGRAMMI**



AIR FLOW DIAGRAM G1/8"  
 DIAGRAMMA DELLE PORTATE G1/8"



AIR FLOW DIAGRAM G1/4"  
 DIAGRAMMA DELLE PORTATE G1/4"

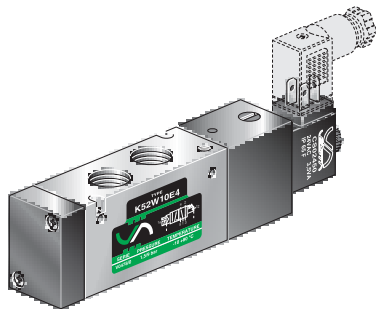


AIR FLOW DIAGRAM G1/2"  
 DIAGRAMMA DELLE PORTATE G1/2"

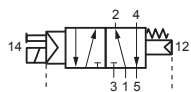




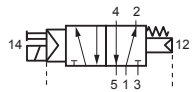
# K52W10E.



### SIMBOLS / SIMBOLI

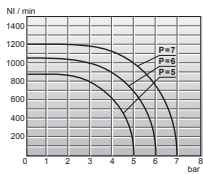


**K52W10E8**

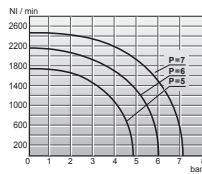


**K52W10E4 - K52W10E2**

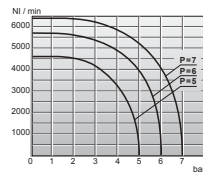
### DIAGRAMS / DIAGRAMMI



AIR FLOW DIAGRAM G1/8"  
DIAGRAMMA DELLE PORTATE G1/8"

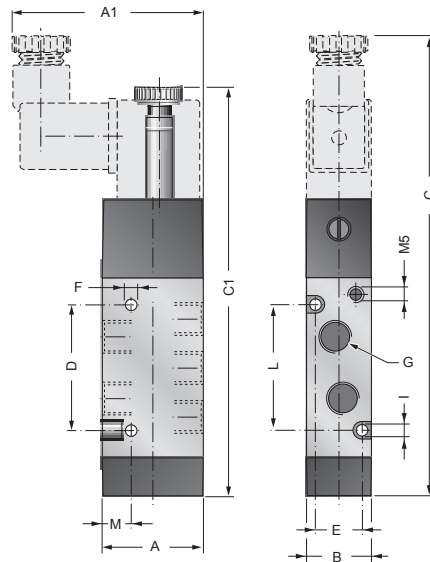


AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"



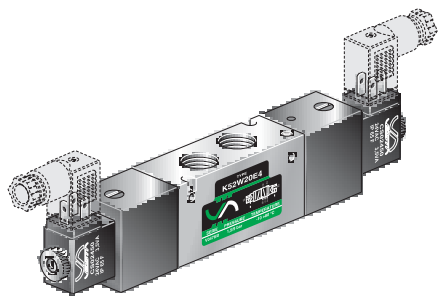
AIR FLOW DIAGRAM G1/2"  
DIAGRAMMA DELLE PORTATE G1/2"

### VALVE / 5/2 SINGLE SOLENOID PILOT - EXTERNAL PRESSURE RETURN COMANDO ELETTROPNEUMATICO - PILOTAGGIO ESTERNO

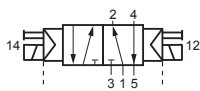


Size Taglia	A	B	C	D	E	ØF	G	ØI	L	M	A1	C1
1/8	28	18	127	35	13	3,2	G1/8	3,2	35	8	53	112
1/4	32	22	142,5	50	16,2	4,2	G1/4	3,5	50	7,3	55	129
1/2	50	30	~180	74,6	-	5,2	G1/2	-	-	11	~75	~166

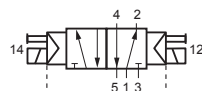
# K52W20E.



### SIMBOLS / SIMBOLI

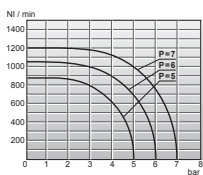


**K52W20E8**

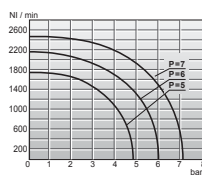


**K52W20E4 - K52W20E2**

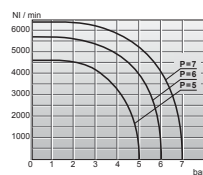
### DIAGRAMS / DIAGRAMMI



AIR FLOW DIAGRAM G1/8"  
DIAGRAMMA DELLE PORTATE G1/8"

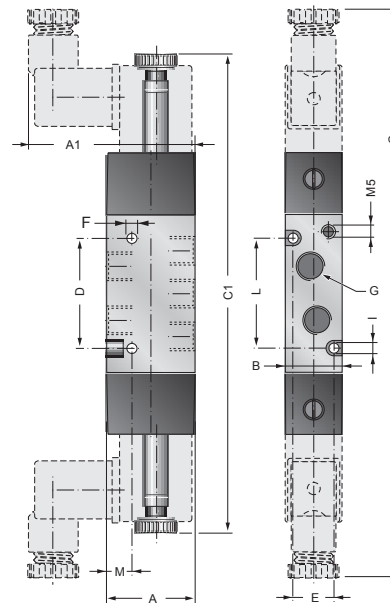


AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"



AIR FLOW DIAGRAM G1/2"  
DIAGRAMMA DELLE PORTATE G1/2"

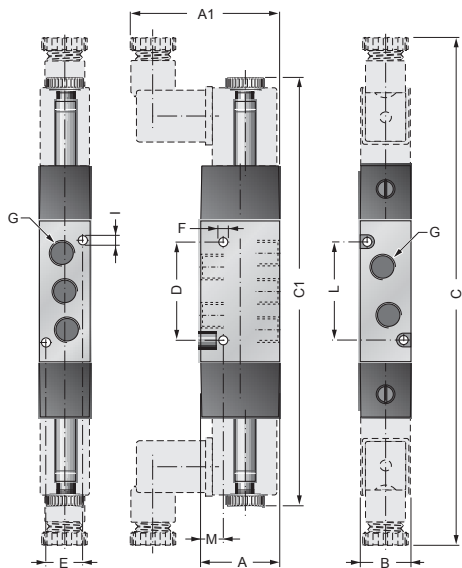
### VALVE / VALVOLA 5/2 DOUBLE SOLENOID PILOT - EXTERNAL PRESSURE RETURN DOPPIO COMANDO ELETTROPNEUMATICO - PILOTAGGIO ESTERNO



Size Taglia	A	B	C	D	E	ØF	G	ØI	L	M	A1	C1
1/8	28	18	180	35	13	3,2	G1/8	3,2	35	8	53	152
1/4	32	22	202	50	16,2	4,2	G1/4	3,5	50	7,3	55	174
1/2	50	30	~240	74,6	-	5,2	G1/2	-	-	11	~75	~210

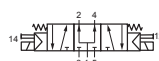
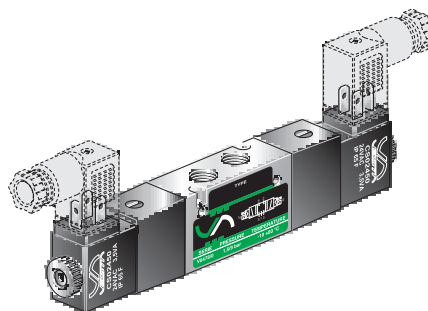
**VALVE / 5/3**

DOUBLE PNEUMATIC PILOT (MID-POSITION PRESSURIZED) / *DOPPIO COMANDO PNEUMATICO (CENTRI IN PRESSIONE)*  
 DOUBLE PNEUMATIC PILOT (MID-POSITION CLOSED) / *DOPPIO COMANDO PNEUMATICO (CENTRI CHIUSI)*  
 DOUBLE PNEUMATIC PILOT (MID-POSITION EXHAUSTED) / *DOPPIO COMANDO PNEUMATICO (CENTRI APERTI)*

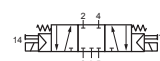


Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	180	~152	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	202	~174	50	16,2	4,2	G1/4	3,5	50	7,3
1/2	50	~75	30	~240	~210	74,6	-	5,2	G1/2	-	-	11

**K53W2S . 1.**



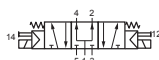
**K53W2S318**



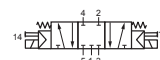
**K53W2S618**



**K53W2S918**



**K53W2S314  
K53W2S312**

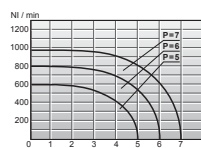


**K53W2S614  
K53W2S612**

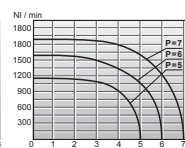


**K53W2S914  
K53W2S912**

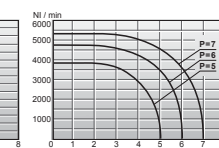
**DIAGRAMS / DIAGRAMMI**



AIR FLOW DIAGRAM G1/8"  
DIAGRAMMA DELLE PORTATE G1/8"



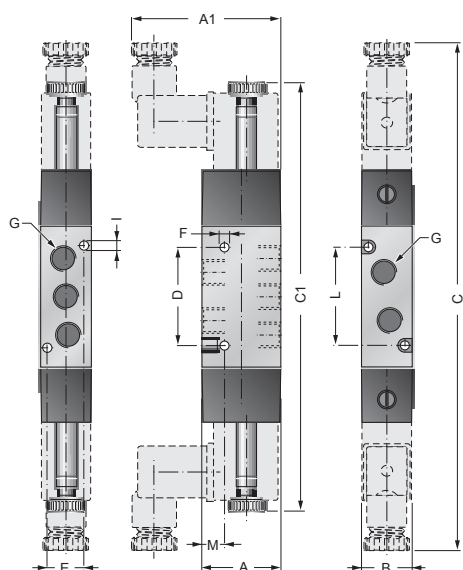
AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"



AIR FLOW DIAGRAM G1/2"  
DIAGRAMMA DELLE PORTATE G1/2"

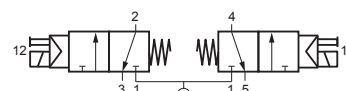
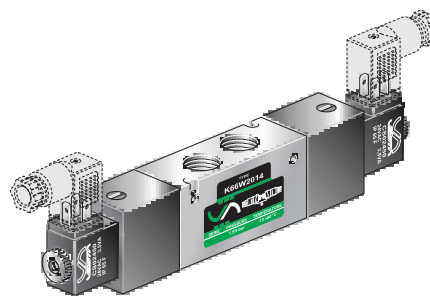
**DOUBLE 3/2 VALVE / DOPPIA 3/2**

DOUBLE 3/2 N.C. SPRING RETURN VALVE  
*DOPPIA VALVOLA 3/2 N.C. RITORNO A MOLLA MECCANICA*



Size Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	180	~152	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	202	~174	50	16,2	4,2	G1/4	3,5	50	7,3

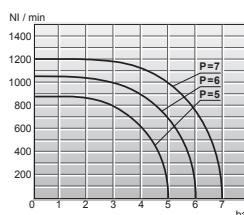
**K66W201.**



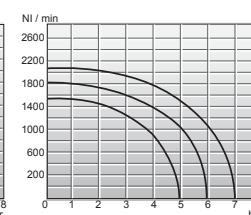
**K66W2018 - K66W2014**

**SIMBOLS / SIMBOLI**

**DIAGRAMS / DIAGRAMMI**



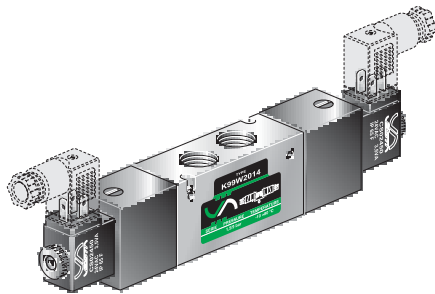
AIR FLOW DIAGRAM G1/8"  
DIAGRAMMA DELLE PORTATE G1/8"



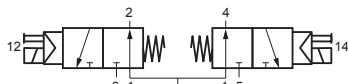
AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"



## K99W201.

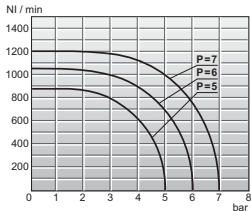


### SIMBOLS / SIMBOLI

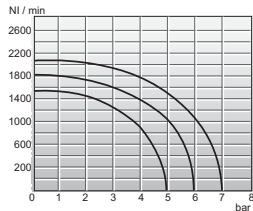


K99W2018 - K99W2014

### DIAGRAMS / DIAGRAMMI



AIR FLOW DIAGRAM G1/8"  
DIAGRAMMA DELLE PORTATE G1/8"

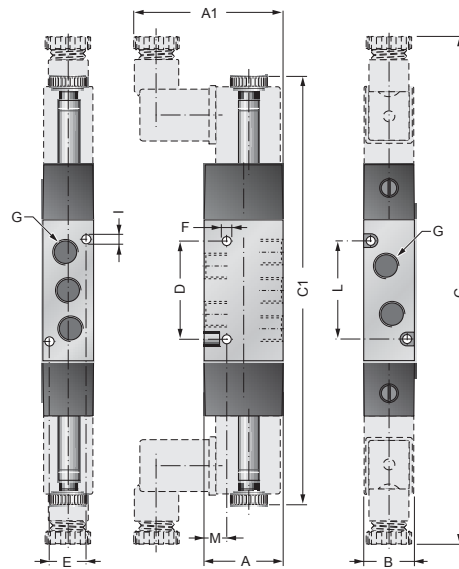


AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"

## DOUBLE 3/2 VALVE / DOPPIA VALVOLA 3/2

DUBLE 3/2 N.O. SPRING RETURN VALVE

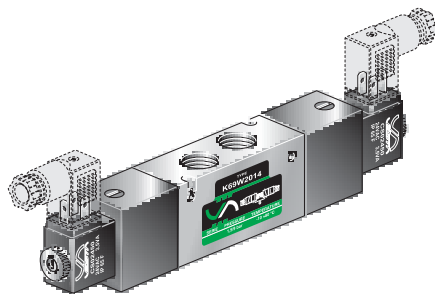
DOPPIA VALVOLA 3/2 N.O. RITORNO A MOLLA MECCANICA



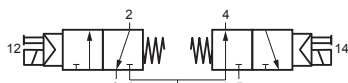
### Size

Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	180	~152	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	202	~174	50	16,2	4,2	G1/4	3,5	50	7,3

## K69W201.

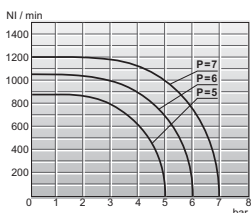


### SIMBOLS / SIMBOLI

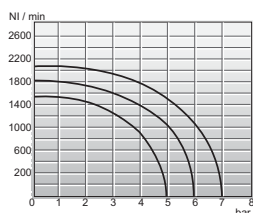


K69W2018 - K69W2014

### DIAGRAMS / DIAGRAMMI



AIR FLOW DIAGRAM G1/8"  
DIAGRAMMA DELLE PORTATE G1/8"

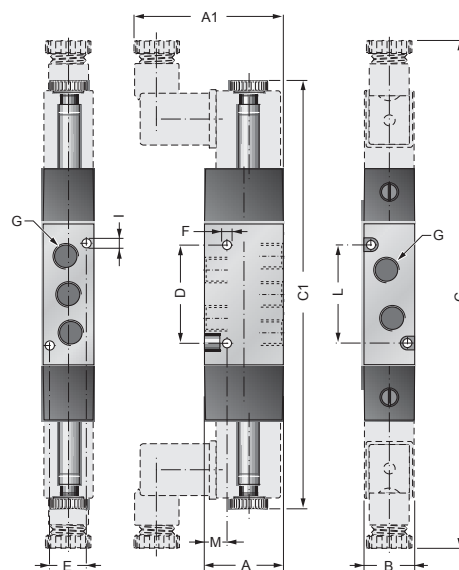


AIR FLOW DIAGRAM G1/4"  
DIAGRAMMA DELLE PORTATE G1/4"

## DOUBLE 3/2 VALVE / DOPPIA VALVOLA 3/2

3/2 N.C. + 3/2 N.O. VALVES SPRING RETURN

VALVOLA 3/2 N.C. + VALVOLA 3/2 N.O. RITORNO A MOLLA MECCANICA



### Size

Taglia	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	180	~152	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	202	~174	50	16,2	4,2	G1/4	3,5	50	7,3