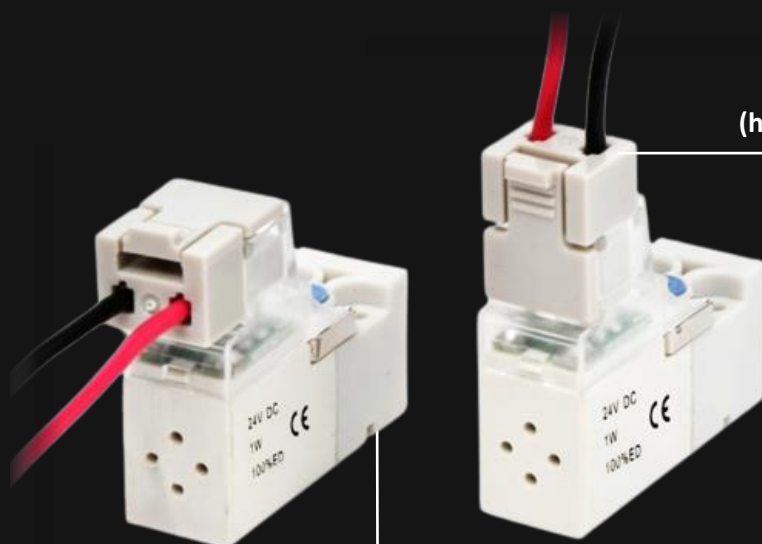


# Directly to the point.

## 3/2 DIRECT OPERATOR SERIES CWJ-10/15

**3/2 DIRECT ACTUATED MICRO OPERATORS**

*MICRO OPERATORI 3/2 AD ATTUAZIONE DIRETTA*



With universal cable connector  
(horizontal + vertical in one cable)

*Con connessione universale  
(verticale + orizzontale)*

**Easy manifold assembly**

**Sizes: 15mm, 10mm**

*Assemblaggio facile in batteria*

*Taglie: 15mm, 10mm*



**CWJ-15**

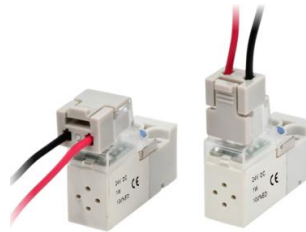
15 mm

**3/2 DIRECT PNEUMATIC OPERATOR**  
*OPERATORE 3/2 AD ATTUAZ. DIRETTA*

Page 3 / Pagina 3

**CWJ-10**

10 mm

**3/2 DIRECT PNEUMATIC OPERATOR**  
*OPERATORE 3/2 AD ATTUAZ. DIRETTA*

Page 6 / Pagina 6

**DESCRIPTION / DESCRIZIONE**

Series **CWJ-15** are fast switching 3/2 function pneumatic valves. Due to the small dimensions (15mm body) and low consumption (under 2,5W) these valves are widely used in pneumatic automation. CWJ-15 operators can be used separately or in manifold assembly (MWJ-15).

*Le valvole della serie **CWJ-15** sono progettate per scambi rapidi in funzione 3/2. Grazie alle dimensioni ridotte (corpo da 10mm) e ai bassi consumi (2,5W) queste valvole sono ampiamente usate in automazione pneumatica. Le micro valvole CWJ-15 possono essere usate singolarmente o in basi (MWJ-15).*

**TECHNICAL FEATURES / CARATTERISTICHE TECNICHE**

<b>Medium</b>	Compressed Air (filtered 40µm)
<b>Working Temp.</b>	-10 ÷ 80°C
<b>Working Pressure</b>	0 ÷ 7 bar
<b>Voltage</b>	24VDC (pin connector)
<b>Power consumption</b>	2,5 W
<b>Max. frequency</b>	30Hz
<b>Response time</b>	10ms
<b>Electrical Rate</b>	ED 100%
<b>Protection Class</b>	IP65 (Insulation class: H)

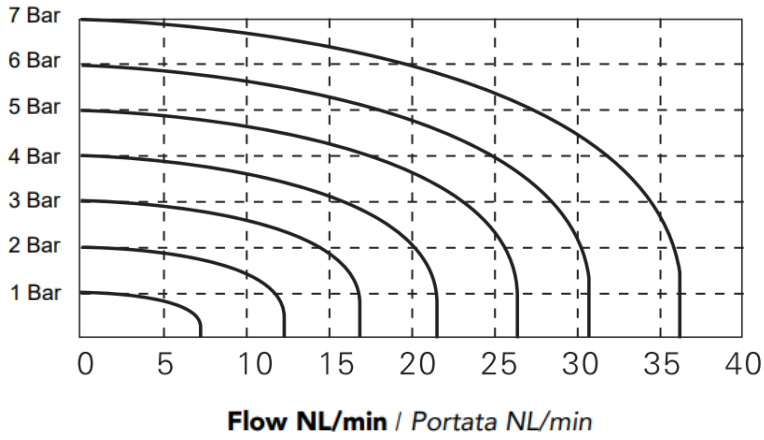
**ORDERING CODE / CODICE DI ORDINAZIONE****CWJ - 15 - NC**

**NC** = Normally closed  
**NO** = Normally open

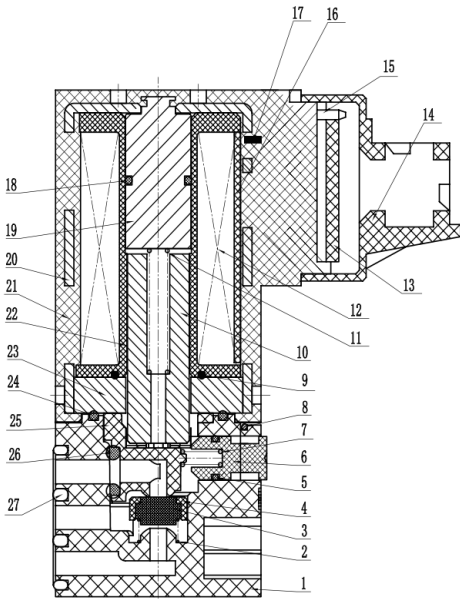
**MWJ - 15 - □□**

Number of valves:  
**2P, 3P, 4P, 5P, 6P**

### FLOW RATE / PORTATA



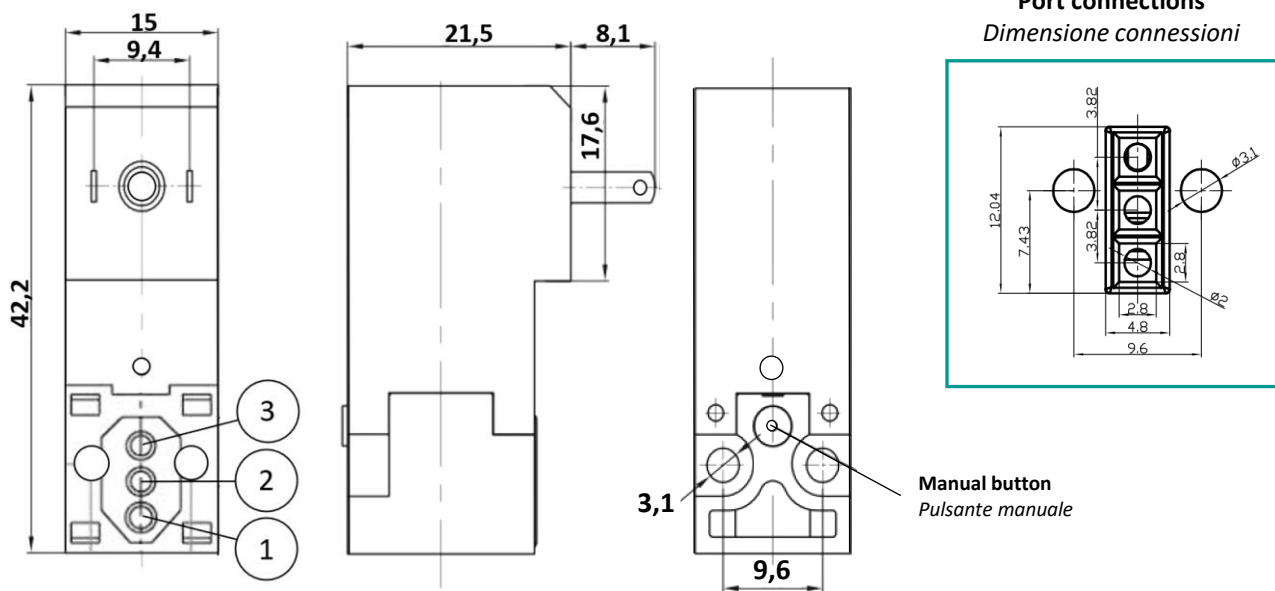
### MATERIALS / MATERIALI



Part Componente		Material Materiale	Part Componente		Material Materiale
1	Valve Body	Resin	16	Plastic sheet	Nylon
2	Spring	S.S	17	Small PIN	Brass
3	Plug	NBR	18	O-Ring	NBR
4	Ejector rod	Resin	19	Iron Core	Electromagnetic stainless steel
5	O-ring	NBR	20	Bracket	Carbon steel
6	Manual Lever	Resin	21	Encapsulation	Nylon
7	Spring	S.S	22	Bobbin	Resin
8	Fix Plate	S.S	23	Baseplate	Carbon steel
9	O-ring	NBR	24	O-Ring	NBR
10	Plunger	Electromagnetic stainless steel	25	Valve Port	Resin
11	Spring	S.S	26	O-Ring	NBR
12	Copper Wire	Brass	27		NBR
13	PCBA	PR-4	28	Seal	
14	Housing	PC	29		
15	Pin	Brass	30		

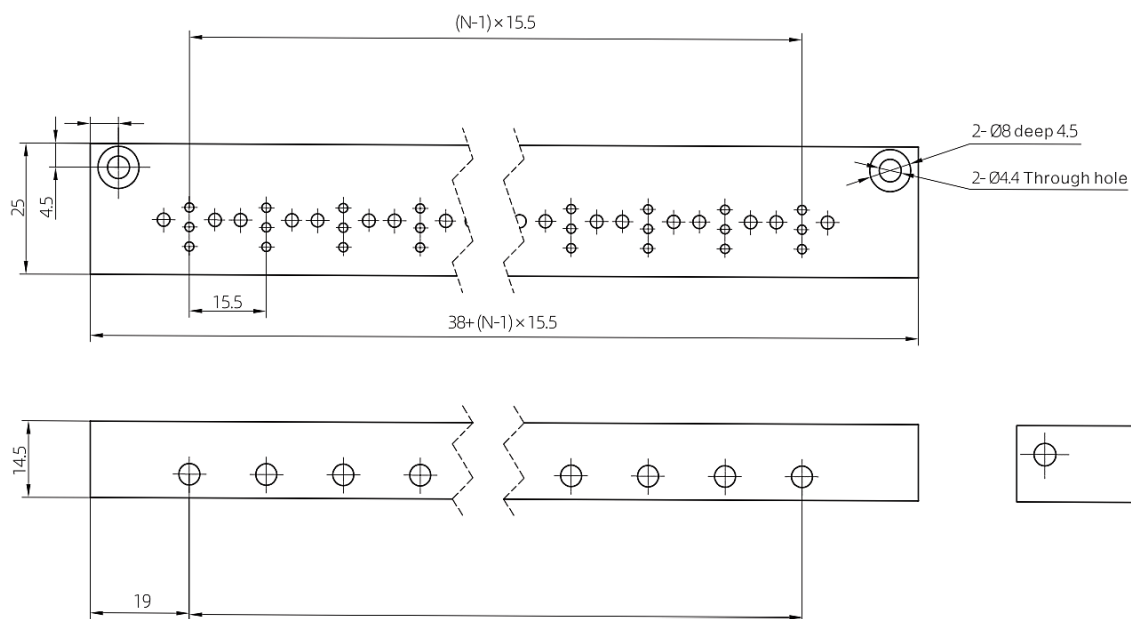
## CWJ – 15 - ...

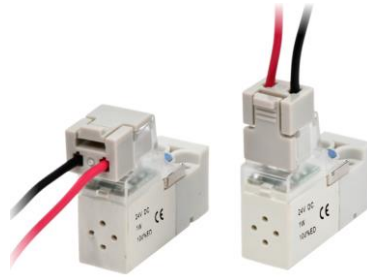
## 3/2 OPERATOR / OPERATORE 3/2



## MWJ – 15 - ...

## MANIFOLD / BASE





## DESCRIPTION / DESCRIZIONE

Series **CWJ-10** are designed for applications that need fast switching valves with 3/2 and 2/2 function. Due to the small dimensions (10mm body) and low consumption (under 1W) these valves are widely used in pneumatic automation, and are powering other products in the Vesta range, such as DPV proportional valves and EWJ multipole connection valve islands. CWJ-10 micro valves can be assembled in manifold (MWJ-10).

*Le valvole della serie **CWJ-10** sono progettate per applicazioni che necessitano scambi rapidi in funzione 3/2 e 2/2. Grazie alle dimensioni ridotte (corpo da 10mm) e ai bassi consumi (meno di 1W) queste valvole sono ampiamente usate in automazione pneumatica, e sono componenti centrali in altri prodotti del range Vesta, come le valvole proporzionali DPV e le isole in connessione multipolare EWJ. Le CWJ-10 possono essere fornite su base (MWJ-10).*

## TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Medium	Compressed Air (filtered 40µm)
Flow section (flow rate)	0,7mm (13 NL/min)
Working Temp.	-5 ÷ 50°C
Working Pressure	0 ÷ 7 bar
Voltage	24VDC (pin connector)
Power consumption	1W
Protection Class	IP65 (insulation class: H)

## ORDERING CODE / CODICE DI ORDINAZIONE

**CWJ - 10 - NC - L**

Blank = No indicator  
L = Led indicator

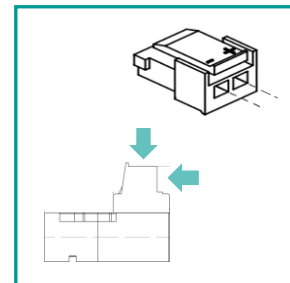
NC = Normally closed  
NO = Normally open  
N2 = 2/2 NO

**MWJ - 10 - □□**

Number of valves:  
2P, 3P, 4P, 5P, 6P

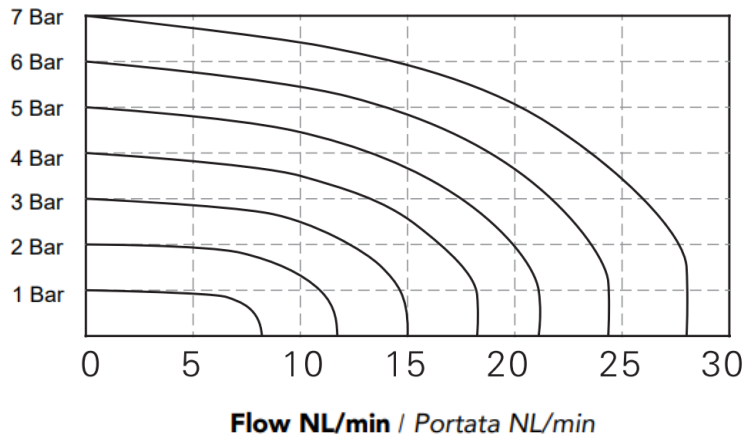
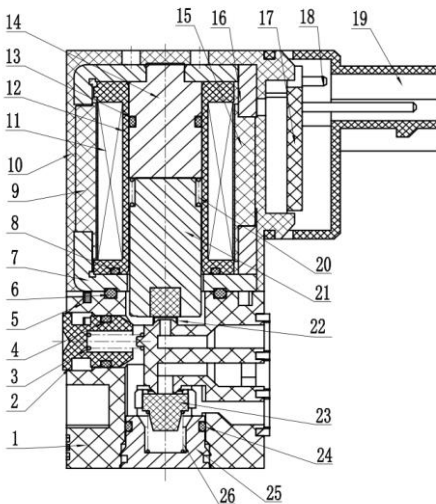
**Cable-pin connector: CWJ-W**

Cavo di connessione: CWJ-W



Vertical & horizontal pin connections are always available (one standard plug connector).

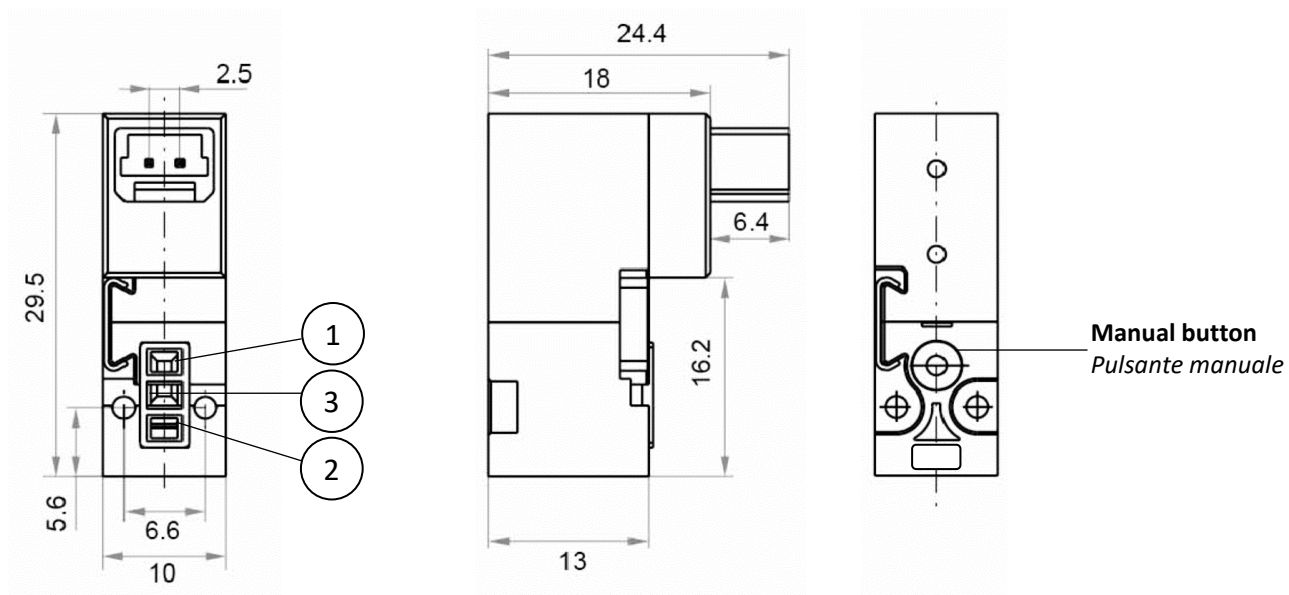
Connessione orizzontale e verticale sono sempre disponibili (con un connettore standard).

**FLOW RATE / PORTATA****MATERIALS / MATERIALI**

	<b>Part</b> <i>Componente</i>	<b>Material</b> <i>Materiale</i>		<b>Part</b> <i>Componente</i>	<b>Material</b> <i>Materiale</i>
1	Valve Body	Resin	16	Bracket Side plate	Carbon steel
2	Manual Lever	POM	17	PCB board	
3	Manual Lever Spring	S.S	18	Pin	Copper
4	O-ring	NBR	19	Housing	PC
5	Manual Lever Card	S.S	20	Spring	S.S
6	O-ring	NBR	21	Plunger	Electromagnetic stainless steel
7	Bracket	Carbon steel	22	Ejector rod	POM
8	O-ring	NBR	23	Plug	NBR
9	Shim	Nylon	24	O-ring	NBR
10	Encapsulation	Nylon	25	Bottom cover	Copper
11	Copper Wire		26	Spring	S.S
12	Bobbin	POM	27		
13	O-ring	NBR	28		
14	Iron core	Electromagnetic stainless steel	29		
15	Shim	Nylon	30		

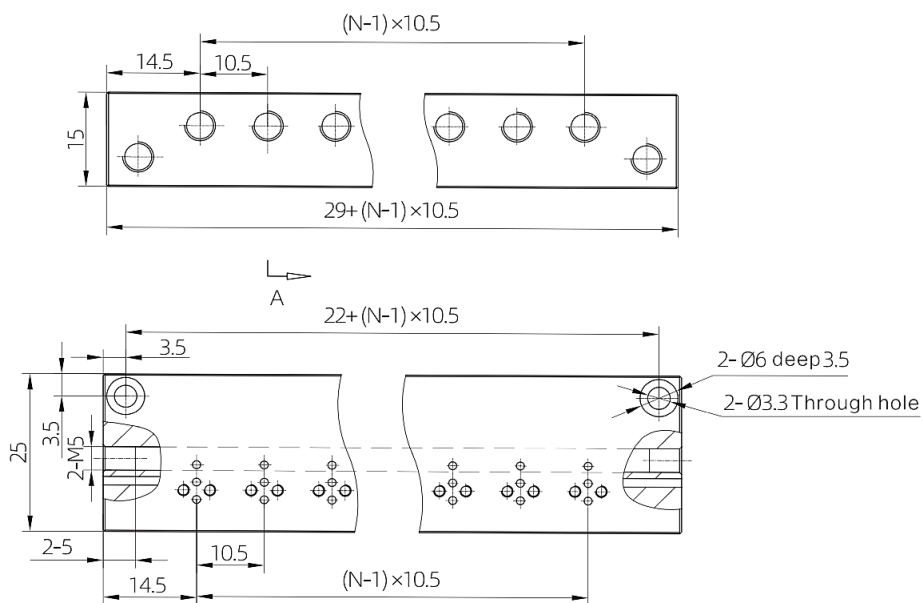
## CWJ – 10 - ...

### 10mm 3/2 OPERATOR / OPERATORE 3/2 DA 10mm



## MWJ – 10 - ...

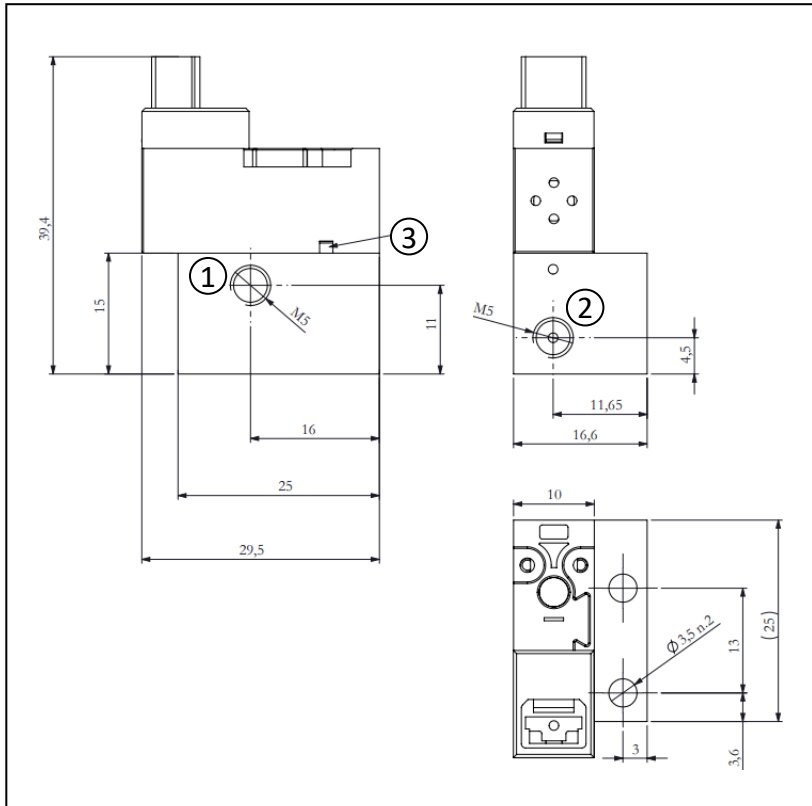
### MANIFOLD / BASE



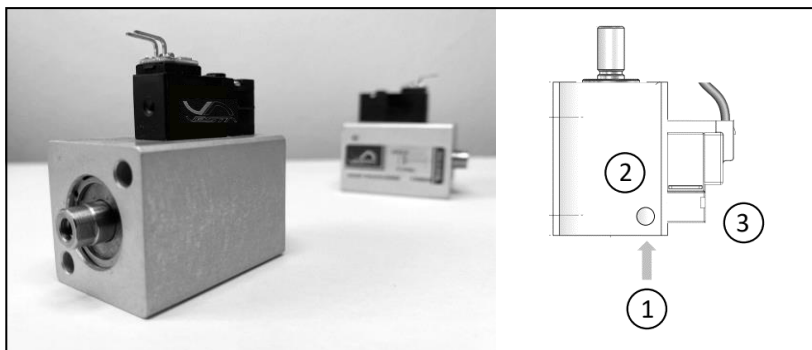


Vesta Automation can develop upon request specific applications for CWJ Series valves. From single position and multi-position 3/2 function manifolds (**example A**), to customized single acting actuators with the pneumatic operator directly assembled on the cylinder body (**example B**).

*Vesta Automation può sviluppare su richiesta applicazioni specifiche per la serie CWJ. Dalle basi/manifold a singola o multi-posizione (esempio A) con funzione 3/2, fino a cilindri a semplice effetto customizzati con micro operatore pneumatico assemblato direttamente sul corpo (esempio B).*



**Application example A**  
*Esempio di applicazione A*



**Application example B**  
*Esempio di applicazione B*