Valve Island Series 3 Plug-In

Plug-In system for electro-pneumatically operated valves Series 3, G1/8 port.

Valve functions: 2x3/2, 5/2 and 5/3-way CO CC CP



This Plug-In system, realized with electropneumatically operated valves Series 3, G1/8 port, is delivered completely assembled and tested. It allows the mounting of up to 22 valve positions (with two SUB-D 25 RIGHT and LEFT connectors). The electrical part is based on printed circuit boards.

- » Flexible assembly
- » LEFT and/or RIGHT electrical connection
- » Easy installation

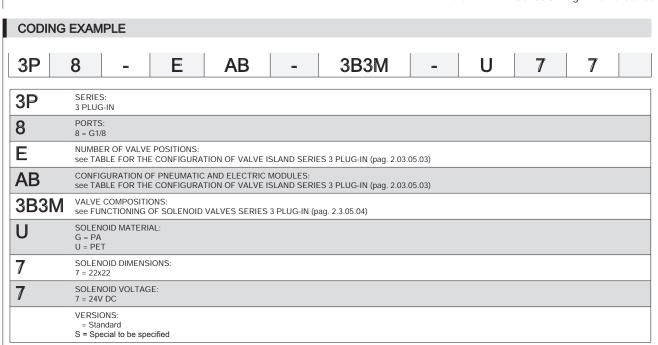
It is possible to combine the electrical modules up to a maximum of 11 valve positions for each side. The pneumatic part is composed by initial, intermediate and terminal modules.

The pneumatic modularity of 2 and 3 positions allows several configurations with different pressure/exhaust zones.

See connectors in the section 2/3.25.

GENERAL DATA AND ELECTRICAL CHARACTERISTICS

Valve construction spool type with seals Valve functions 5/2 - 5/3 CC CO CP - 2x3/2 NO - 2x3/2 NC - 1 3/2 NO+1 3/2 NC Materials AL body, stainless steel spool, NBR seals, technopolymer through-out holes in the valve body Mounting **Ports** valve = G1/8 - manifold = G3/8 in any position Operating temperature from 0°C to 60°C (with dry air at -20°C) Nominal flow rate Qn 700 NI/min Nominal diameter Fluid Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil, and to never interrupt the lubrication. Signalling yellow LED Voltage 24 V DC Voltage tolerances +/- 10% Duty cycle ED 100% Protection class IP65 Power consumption Power supply connector SUB-D 25 poles IP65



3P8-EAB-3B3M-U77 = Valve island with 6 positions equipped with 3 Solenoid valves Cod. B and 3 Cod. M, SUB-D connector on the LEFT.

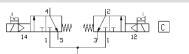
TABLE FOR THE CONFIGURATION OF VALVE ISLAND SERIES 3 PLUG-IN

The valve island code is always read from left to right, the electrical module is positioned on top of the pneumatic manifold, as on the photo on page 2.3.05.01. It is also possible to create 2 or more pressure zones in the valve island by inserting the diaphragm Mod. CNVL-TP between the modules.

The letter represents the number of valve positions	Number of valve positions, showing the combination of the modules from which the valve island is built.	Position of the D-SUB and number of valves to which it is connected. [left]	Position of the D-SUB and number of valves to which it is connected. [right]	Configuration code Positions	Configuration code
A = 2 pos.	[2] (2)	- 2	2	A A	A - A A - B
B = 3 pos.	[3]	- 3	3	B B	A - A A - B
C = 4 pos.	[2] [2]	- 4	4 -	C C	A - A A - B
D = 5 pos.	(2) (2) [3] [2]	-	5	D	A - A
	(3) (2) [2] [3] (2) (3)	5 - 5	- 5 -	D D D	A - B A - C A - D
E = 6 pos.	[3] [3]	-	6	E	A - A
	(3) (3) [2] [2] [2] (2) (2) (2)	6 - 6	- 6 -	E E E	A - B B - A B - B
= 7 pos.	[2] [3] [2]	-	7	F F	A - A A - B
	(2)(3)(2) [2] [2] [3]	7 - 7	7	F F	B - A B - B
	(2) (2) (3) [3] [2] [2] (3) (2) (2)	, - 7	- 7 -	F F	B - C B - D
G = 8 pos.	[3] [3] [2] (3)(3)(2)	- 8	8	G G	A - A A - B
	[2] [3] [3] (2)(3)(3)	- 8	8	G G	A - C A - D
	[2] [2] [2] (2)(2)(2) (2)	- 8	8	G G	B - A B - B
	[3] [2] [3] (3) (2) (3)	- 8	- 8 -	G G	B - C B - D
H = 9 pos.	[3] [3] [3] (3)(3)(3)	- 9	9	H H	A - A A - B
	[3] [2] [2]	- 9	9	'' Н Н	B - A B - B
	(3)(2)(2) (2) [2] [3] [2] [2]	-	9	Н	B - C
	(2) (3) (2) (2) [2] [2] [3] [2]	9 -	9	H H	B - D B - E
	(2) (2) (3) (2) [2] [2] [3]	9 -	- 9	H H	B - F B - G
= 10 pos.	(2) (2) (3) [2] [3] [3] [2]	-	- 10	H I	B - H A - A
J = 11 pos.	(2)(3)(3)(2)	- 10	- 11	I	A - B A - A
•	(2)(3)(3)(3) [3] [3] [2]	11 -	- 11	J	A - B A - C
K = 12 pos.	(3)(3)(3)(2) (3) [3] [3] [3]	<u>11</u>	<u>-</u> 9	J K	A - D A - A
(= 12 pos.	(3)(3)[3] [3]	6	6	K K	A - B A - C
L = 13 pos.	(2) [3] [3] [2]	2 5	11 8	L L	A - A A - B
	(2) (3) [3] [3] [2] (2) (3) (3) [3] [2] (2) (3) (3)(3) [2]	8 11	5 2	L L	A - C A - D
M = 14 pos.	(2) (3) [3] [3] [3]	5	9	M	A - A
	(2) (3) (3) [3] [3] (2) (3) (3) (3) [3]	8 11	6 3	M M	A - B A - C
	(3) [3] [3] [2] (3) (3) [3] [3] [2]	3 6 9	11 8	M M	A - D A - E
N = 15 pos.	(3) (3) (3) [3] [2]	6	9	M N	A - F
O = 16 pos.	(3) (3) (3) [3] [3] (2) (3) [3] [3] [2]	9 5	6 11	N O	A - B A - A
	(2) (3) (3) [3] [3] [2] (2) (3) (3) (3) [3] [2]	8 11	8 5	O O	A - B A - C
P = 17 pos.	(2) (3) (3) [3] [3] [3] (2) (3) (3) (3) [3] [3]	8 11	9 6	P P	A - A A - B
	(3) (3) [3] [3] [3] [2] (3) (3) (3) [3] [3] [2]	6	11 8	P P	A - C A - D
Q = 18 pos.	(3) (3) (3) [3] [3] [3]	9	9	Q	A - A
R = 19 pos.	(2) (3) (3) [3] [3] [2] (2) (3) (3) (3) [3] [3] [2]	8 11	11 8	R R	A - A A - B
S = 20 pos.	(2) (3) (3) (3) [3] [3] [3] (3) (3) (3) [3] [3] [3] [2]	11 9	9 11	S S	A - A A - B
T = 21 pos.*	(3) (3) [3] [3] [3] [3] (3) (3) (3) [3] [3] [3] [3]	10 11	11 10	T T	A - A A - B
U = 22 pos.	(2) (3) (3) (3) [3] [3] [3] [2]	11	11	U	A - B A - A
th	* = in this configuration ne electric modularity doesn't correspond				

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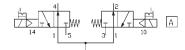


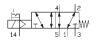


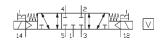




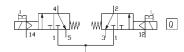




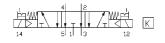








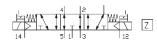




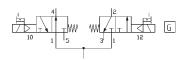


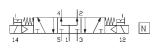




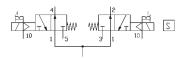


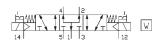












a		L	
3		3	_
1	Π	1	U
5 —			

Mod.	Function	Actuation/return	Pilot supply	Working pressure (bar)	Pilot pressure (bar)	Code
338D-015-02	2 x 3/2 NC	solenoid/spring	Internal	2,5 ÷ 10	•	С
348D-015-02	2 x 3/2 NO	solenoid/spring	Internal	2,5 ÷ 10	-	Α
398D-015-02	1 x 3/2 NC + 1 x 3/2 NO	solenoid/spring	Internal	2,5 ÷ 10		G
358-015-02	5/2 monostable	solenoid/spring	Internal	2,5 ÷ 10	-	М
358-011-02	5/2 bistable	solenoid/solenoid	Internal	1,5 ÷ 10		В
368-011-02	5/3 CC	solenoid/solenoid	Internal	2 ÷ 10	-	Н
378-011-02	5/3 CO	solenoid/solenoid	Internal	2 ÷ 10	-	K
388-011-02	5/3 CP	solenoid/solenoid	Internal	2 ÷ 10	-	N
338D-E15-02	2 x 3/2 NC	solenoid/spring	External	-0,9 ÷ 10	2,5 ÷ 10	Q
348D-E15-02	2 x 3/2 NO	solenoid/spring	External	-0,9 ÷ 10	2,5 ÷ 10	R
398D-E15-02	1 x 3/2 NC + 1 x 3/2 NO	solenoid/spring	External	-0,9 ÷ 10	2,5 ÷ 10	S
358-E15-02	5/2 monostable	solenoid/spring	External	-0,9 ÷ 10	2,5 ÷ 10	D
358-E11-02	5/2 bistable	solenoid/solenoid	External	-0,9 ÷ 10	1,5 ÷ 10	Υ
368-E11-02	5/3 CC	solenoid/solenoid	External	-0,9 ÷ 10	2 ÷ 10	V
378-E11-02	5/3 CO	solenoid/solenoid	External	-0,9 ÷ 10	2 ÷ 10	Z
388-E11-02	5/3 CP	solenoid/solenoid	External	-0,9 ÷ 10	2 ÷ 10	w
CNVL/1L	free position (electrical and pneumatic cover)	-	-	-	-	L
CNVL-3P1	plate for supply and outlets	-	-	-	-	х
CNVL-3H-TP (x1)	diaphragm for supply (1)	-	-	-	-	U
CNVL-3H-TP (x2)	diaphragm for outlets (3-5)	-	-	-	-	J
CNVL-3H-TP (x3)	diaphragm for supply (1) and outlets (3-5)	-	-	-	-	Т



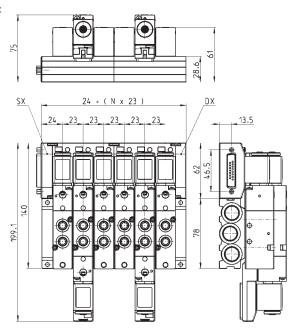


Valve island Series 3 Plug-In

In case a solenoid valve type M is inserted in a free position, the following components must be ordered: 2x screws Cod. CNVL/21 1x interface seal Cod. CNVL-3H/7N



In case a solenoid valve type B is inserted in a free position, the following component must be ordered: 1x electrical module Cod. 3PAC-R-IF1



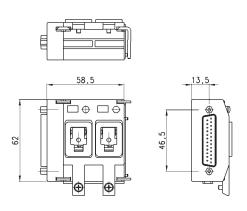
N = number of valve positions



Initial left electrical Module - 2 positions

To be mounted with manifold CNVL-3H2





 $\mathsf{Mod}.$

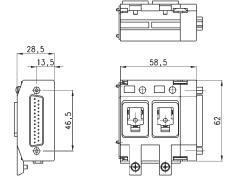
3PAC-R-LS2

CONTROL



Initial right electrical Module - 2 positions

To be mounted with manifold CNVL-3H2



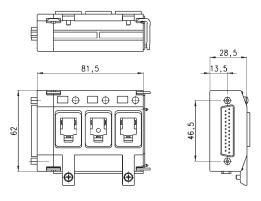
Mod.

3PAC-R-RS2



Initial left electrical Module - 3 positions

To be mounted with manifold CNVL-3H3



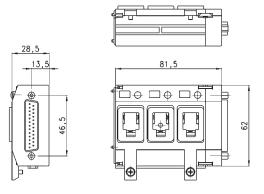
Mod.

3PAC-R-LS3



Initial right electrical Module - 3 positions

To be mounted with manifold CNVL-3H3



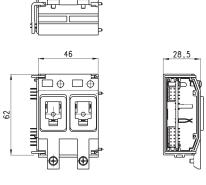
Mod.

3PAC-R-RS3



Intermediate left electrical Module - 2 positions

To be mounted with manifold CNVL-3H2



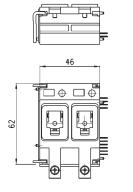
Mod.

3PAC-R-LI2



Intermediate right electrical Module - 2 positions

To be mounted with manifold CNVL-3H2



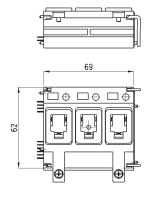


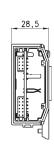
Mod. 3PAC-R-RI2



Intermediate left electrical Module - 3 positions

To be mounted with manifold CNVL-3I3



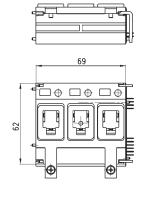


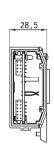
Mod.
3PAC-R-LI3



Intermediate right electrical Module - 3 positions

To be mounted with manifold CNVL-3I3





Mod.
3PAC-R-RI3

Electrical Module for a bistable solenoid valve

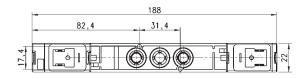


Supplied with:

2x screws for valve mounting 2x screws for solenoid mounting

1x interface seal

2x interface seals for solenoid



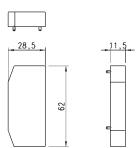


Mod.
3PAC-R-IF1

CONTROL

End cap for electric module





DIMENSIONS

Mod.

3PAC-R-TP1



Initial/terminal pneumatic Module - 2 positions

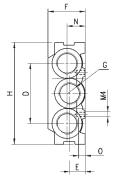
Supplied with:

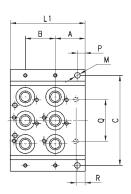
3x O-rings

2x fixing screws

2x junction plugs

6x interface seals module/valve





DIMENSION	IS														
Mod.	Α	В	С	D	E	F	G	Н	L1	М	N	0	Р	Q	R
CNVL-3H2	23	23	69,5	46	12	29	3/8	78	57,5	4,3	14	5	6	32	7

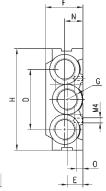


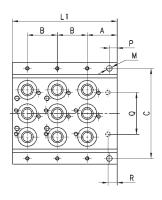
Initial/terminal pneumatic Module - 3 positions

Supplied with: 3x O-rings

2x fixing screws 2x junction plugs

9x interface seals module/valve





DIMENSION	NS														
Mod.	Α	В	С	D	Е	F	G	Н	L1	М	N	0	Р	Q	R
CNVL-3H3	23	23	69,5	46	12	29	3/8	78	80,5	4,3	14	5	6	32	7



Intermediate pneumatic Module - 2 positions

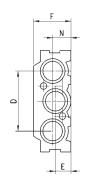
Supplied with:

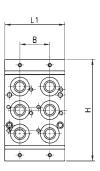
3x O-Rings

2x fixing screws

2x junction plugs

6x interface seals module/valve





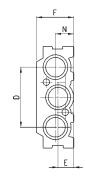
DIMENSION	S						
Mod.	В	D	E	F	Н	L1	N
CNVL-3I2	23	46	12	29	78	46	14

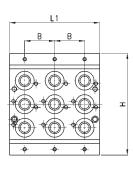


Intermediate pneumatic Module - 3 positions

Supplied with:

- 3x O-rings
- 2x fixing screws
- 2x junction plugs
- 9x interface seals module/valve





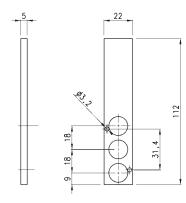
CNVL-3I3 23 46 12 29 78 69 14	Mod.	В	D	E	F	Н	L1	N
	CNVL-3I3		46	12	29	78	69	14



Excluder tap for free position (cod. L)

Supplied with: 3x O-rings

2x screws



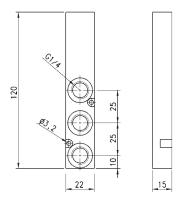
Mod.



Intermediate plate for manifolds with outlets (cod. X)

Supplied with: 3x O-rings 2x screws

Supplied with:



Mod.

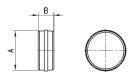


Diaphragm for separation channels 1 - 3 - 5 (cod. U - J or T)



1x diaphragm.

If you need cod. U, please order N° 1 piece. If you need cod. J, please order N° 2 pieces. If you need cod. T, please order N° 3 pieces.



Mod.	А	В
CNVL-3H-TP	15,6	6