

Series 3 valves and solenoid valves

2x3/2, 3/2, 5/2 and 5/3-way CC CO CP
Ports: G1/8 and G1/4



Series 3 solenoid valves with G1/8 and G1/4 ports have been designed in the 3/2, 2 x 3/2, 5/2, 5/3 versions and with the following two devices of actuation:

- Electropneumatically actuated with mechanical spring return
- Electropneumatically actuated with external and internal air pressure supply

Series 3 valves are equipped with a manual override which allows a stable operation and they can use Series U or G solenoids (22x22).

Pneumatically actuated valves 3/2 NC become NO when the supply is on connection 3.

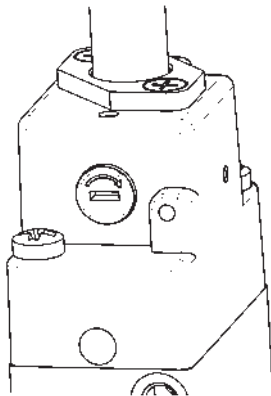
GENERAL DATA

Construction	spool - type
Valve group	2x3/2 - 3/2 - 5/2 - 5/3-way CC CO CP
Materials	AL body, stainless steel spool, NBR seals
Ports	G1/8 - G1/4
Installation	in any position
Operating temperature	0 ÷ 60°C (with dry air at -20°C)
Operating pressure	see tables
Fluid	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.

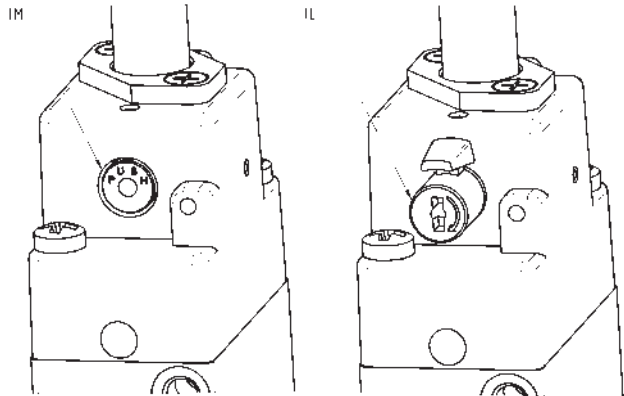
CODING EXAMPLE

3	3	8	D	-	015	-	02	IL	-	U7	7
3	SERIES										
3	NUMBER OF WAYS - POSITIONS: 3 = 3/2 NC 4 = 3/2 NO 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO 8 = 5/3 CP 9 = 1x3/2 NC + 1x3/2 NO										
8	PORTS: 8 = G1/8 4 = G1/4										
D	VERSION: = standard D = double valve 2x3/2 L = for manifold assembly (only for solenoid valves 3/2 with G1/8 ports)										
015	ACTUATION: 011 = double solenoid 015 = single solenoid, spring return 016 = single solenoid, pneumatic spring return E11 = double solenoid external servo-command E15 = single solenoid, external servo-command 033 = pneumatic pneumatic 035 = pneumatic spring										
02	SOLENOID INTERFACE: 02 = mech. sol. 22 x 22										
IL	TYPE OF MANUAL OVERRIDE: = bistable, standard IL = bistable, lever type (available on demand) IM = monostable (available on demand)										
U7	ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22										
7	SOLENOID VOLTAGE (see the dedicated section 2.35)										

TYPES OF MANUAL OVERRIDE

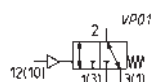
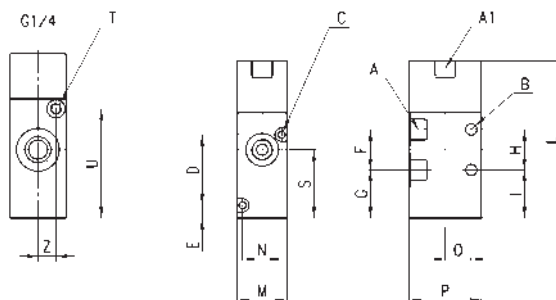


Example of solenoid valve with a bistable standard manual override.



Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL).

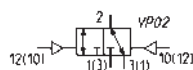
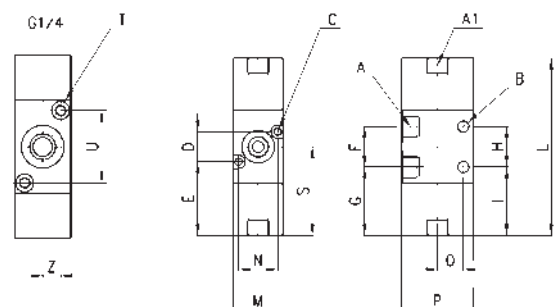
3/2-way valve, G1/8 or G1/4, monostable



DIMENSIONS

Mod.	Mounting	Function	Flow rate (NL/min)	Min. pilot press. (bar)	Working press. (bar)	A	A1	B	C	D	E	F	G	H	I	L	M	N	O	P	S	T	U	Z
338-035	in-line	3/2 NC	700	2.5	-0.9 ÷ 10	G1/8	G1/8	5	3.2	-	5.7	18	21.4	18	21.4	69.8	22	-	11.5	32	30.4	-	-	-
338L-035	on manifold	3/2 NC	700	2.5	-0.9 ÷ 10	G1/8	G1/8	-	3.2	31.4	5.7	18	21.4	-	21.4	69.8	22	17.4	11.5	32	30.4	-	-	-
334-035	in-line	3/2 NC	1300	3	-0.9 ÷ 10	G1/4	-	4.1	-	-	-	22	21.4	22	21.4	73	25	-	16	40	32.4	M5	48.5	8

3/2-way valve, G1/8 or G1/4, bistable



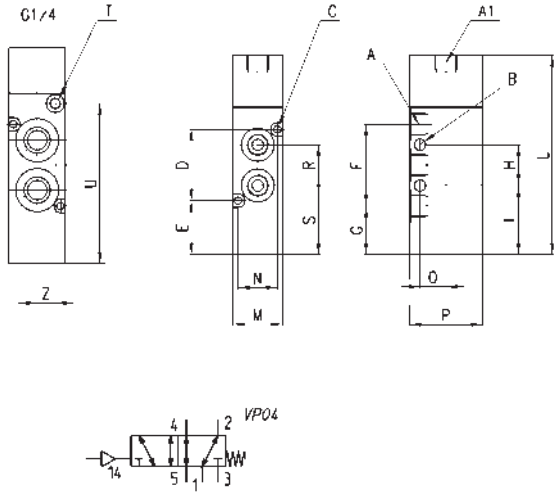
DIMENSIONS

Mod.	Mounting	Function	Flow rate (NL/min)	Min. pilot press. (bar)	Working press. (bar)	A	A1	B	C	D	E	F	G	H	I	L	M	N	O	P	S	T	U	Z
338-033	in-line	3/2	700	1.5	-0.9 ÷ 10	G1/8	G1/8	5	-	-	-	18	30.4	18	30.4	78.8	22	-	11.5	32	41.7	-	-	-
338L-033	on manifold	3/2	700	1.5	-0.9 ÷ 10	G1/8	G1/8	5	3.2	13.4	32.7	18	30.4	-	30.4	78.8	22	17.4	-	32	41.7	-	-	-
334-033	in-line	3/2	1300	2.5	-0.9 ÷ 10	G1/4	-	4.1	-	-	-	22	29.7	22	29.7	81.3	25	-	16	40	40.7	M5	32.3	8

5/2-way valve, G1/8 or G1/4, monostable



In-line or manifold mounting

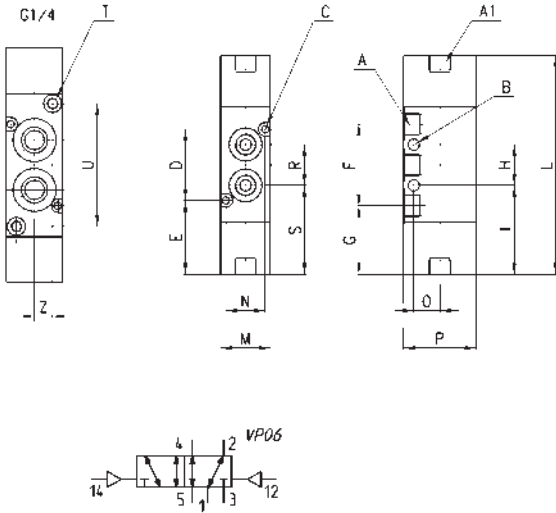


DIMENSIONS																			
Mod.	Function	Flow rate (NL/min)	min pilot press. (bar)	Working press. (bar)	A	A1	B	C	D	E	F	G	H	I	L	M	N	O	P
358-035	5/2	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	23,8	36	21,4	18	30,4	87,8	22	17,4	11,5	32
354-035	5/2	1300	3	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	25,4	44	21,4	22	30,4	95	25	21	16	40

5/2-way valve, G1/8 or G1/4, bistable



In-line or manifold mounting

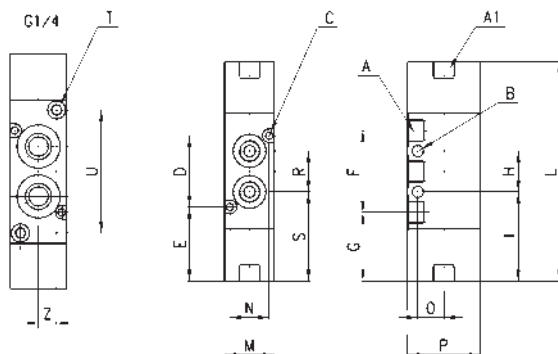


DIMENSIONS																			
Mod.	Function	Flow rate (NL/min)	min. pilot pressure (bar)	Working pressure (bar)	A	A1	B	C	D	E	F	G	H	I	L	M	N	O	P
358-033	5/2	700	1,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32
354-033	5/2	1300	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40

5/3-way valve, G1/8 or G1/4



In-line or manifold mounting



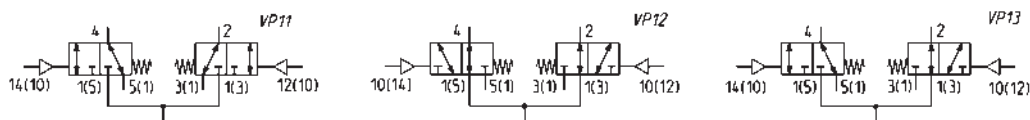
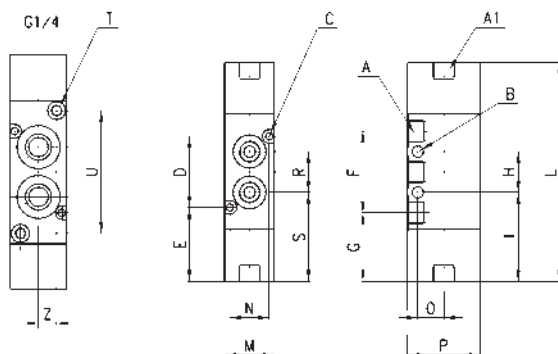
DIMENSIONS

Mod.	Function	Flow rate (NL/min)	Min. pilot pr. (bar)	Working pr. (bar)	A	A1	B	C	D	E	F	G	H	I	L	M	N	O	P	S	T	U	Z	Symb.
368-033	5/3 CC	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP08
364-033	5/3 CC	1200	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP08
378-033	5/3 CO	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP09
374-033	5/3 CO	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP09
388-033	5/3 CP	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP10
384-033	5/3 CP	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP10

2 x 3/2-way valve, G1/8 or G1/4



In-line or manifold mounting



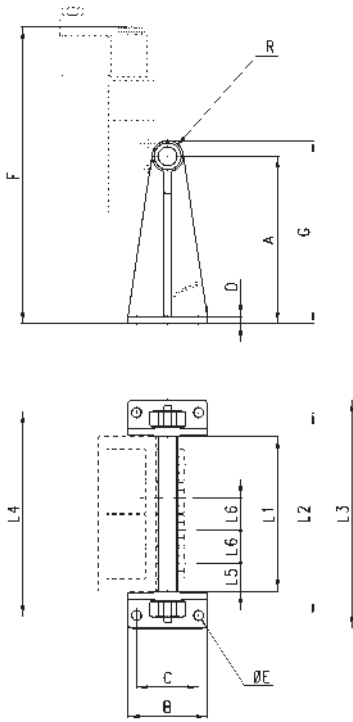
DIMENSIONS

Mod.	Function	Flow rate (NL/min)	min. pilot pr. (bar)	Working pr. (bar)	A	A1	B	C	D	E	F	G	H	I	L	M	N	O	P	S	T	U	Z	Symb.
338D-035	2x3/2 NC	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP11
334D-035	2x3/2 NC	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP11
348D-035	2x3/2 NO	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP12
344D-035	2x3/2 NO	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP12
398D-035	2x3/2 NC/NO	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP13
394D-035	2x3/2 NC/NO	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP13

Manifold bars with separate exhausts (low version)



The following is supplied:
2x feet
1x manifold
1x inlet fitting
1x plug
4x washers



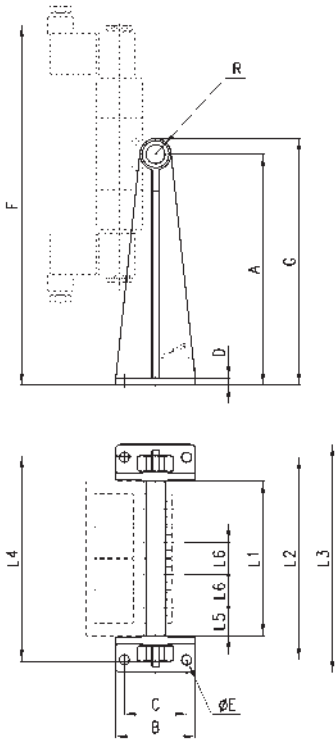
DIMENSIONS																
Mod.	Nrof valves	A	B	C	D	ØE	F	G	R	L1	L2	L3	L4	L5	L6	Suitable for Series
CNV-318-2	2	73	56	44	5	7	178	83	G1/4	63	97	115	99	20	23	3 - G1/8
CNV-318-3	3	73	56	44	5	7	178	83	G1/4	86	120	138	119	20	23	3 - G1/8
CNV-318-4	4	73	56	44	5	7	178	83	G1/4	109	143	161	142	20	23	3 - G1/8
CNV-318-5	5	73	56	44	5	7	178	83	G1/4	132	166	184	165	20	23	3 - G1/8
CNV-318-6	6	73	56	44	5	7	178	83	G1/4	155	189	207	188	20	23	3 - G1/8

The fixing screws of the valves
Mod. 1631 01-1/8 must be ordered
separately.

Manifold bars with separate exhausts (high version)



The following is supplied:
2x feet
1x manifold
1x inlet fitting
1x plug
4x washers



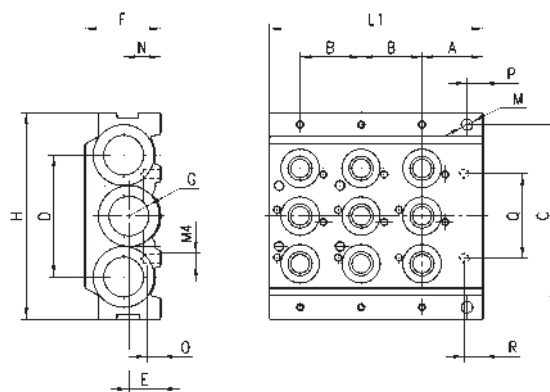
DIMENSIONS																
Mod.	Nr of valves	A	B	C	D	ØE	F	G	R	L1	L2	L3	L4	L5	L6	Suitable for Series
CNV-328-2	2	118	56	44	5	7	223	128	G1/4	63	97	115	99	20	23	3 - G1/8
CNV-328-3	3	118	56	44	5	7	223	128	G1/4	86	120	138	119	20	23	3 - G1/8
CNV-328-4	4	118	56	44	5	7	223	128	G1/4	109	143	161	142	20	23	3 - G1/8
CNV-328-5	5	118	56	44	5	7	223	128	G1/4	132	166	184	165	20	23	3 - G1/8
CNV-328-6	6	118	56	44	5	7	223	128	G1/4	155	189	207	188	20	23	3 - G1/8

The fixing screws of the valves
Mod. 1631 01-1/8 must be ordered
separately.

Initial / final Module with three positions - Mod. CNVL-...



The following is supplied:
3x interface O-Rings manifold/manifold;
2x fixing nuts;
2x junction plugs;
9x interface seals valve/manifold (CNVL-3H3)
or 3x interface seals valve/manif. (CNVL-4H3);
6x fixing screws for valves



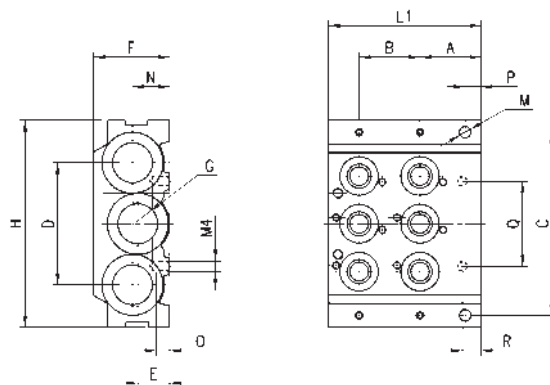
DIMENSIONS															
Mod.	A	B	C	D	E	F	H	L1	M	N	O	P	Q	R	G
CNVL-3H3	23	23	69,2	46	12	29	78	80,5	4,3	14	5	6	32	7	3/8
CNVL-4H3	26	26	88	60	14	29	98	91	4,3	-	5	5	38	7	1/2

CNVL-3H3: for Series 3, G1/8
CNVL-4H3: for Series 3, G1/4

Initial / final Module with 2 positions - Mod. CNVL-...



Initial module with 2 positions
The following is supplied:
3x interface O-Rings manifold/manifold;
2x fixing nuts;
2x junction plugs;
6x interface seals valve/manifold (CNVL-3H2)
or 2x interface seals valve/manif. (CNVL-4H2);
4x fixing screws for valves



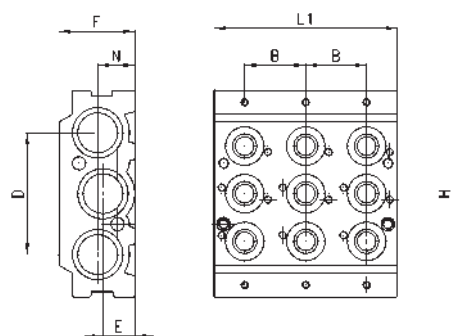
DIMENSIONS															
Mod.	A	B	C	D	E	F	H	L1	M	N	O	P	Q	R	G
CNVL-3H2	23	23	69,2	46	12	29	78	57,5	4,3	14	5	6	32	7	3/8
CNVL-4H2	26	26	88	60	14	29	98	65	4,3	-	5	5	38	7	1/2

CNVL-3H2: for Series 3, G1/8
CNVL-4H2: for Series 3, G1/4

Intermediate module with 3 positions - Mod. CNVL-...



The following is supplied:
3x interface O-Rings manifold/manifold;
2x fixing nuts;
2x junction plugs;
9x interface seals valve/manifold (CNVL-3I3)
or 3x interface seals valve/manif. (CNVL-4I3);
6x fixing screws for valves



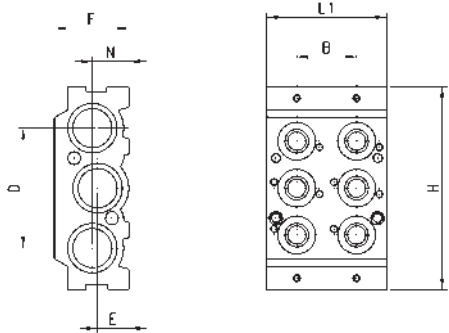
DIMENSIONS							
Mod.	B	D	E	F	H	L1	N
CNVL-3I3	23	46	12	29	78	69	14
CNVL-4I3	26	60	14	29	98	78	-

CNVL-3I3: for Series 3, G1/8
CNVL-4I3: for Series 3, G1/4

Intermediate module with 2 positions - Mod. CNVL-...



The following is supplied:
3x interface O-Rings manifold/manifold;
2x fixing nuts;
2x junction plugs;
6x interface seals valve/manifold (CNVL-312)
or 2x interface seals valve/manif. (CNVL-412);
4x fixing screws for valves



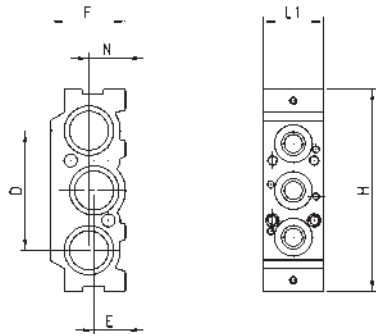
DIMENSIONS							
Mod.	B	D	E	F	H	L1	N
CNVL-312	23	46	12	29	78	46	14
CNVL-412	26	60	14	29	98	52	-

CNVL-312: for Series 3, G1/8
CNVL-412: for Series 3, G1/4

Intermediate module with 1 position - Mod. CNVL-...



The following is supplied:
3x interface O-Rings manifold/manifold;
2x fixing nuts;
2x junction plugs;
3x interface seals valve/manifold (CNVL-311)
or 1x interface seal valve/manif. (CNVL-411);
2x fixing screws for valves



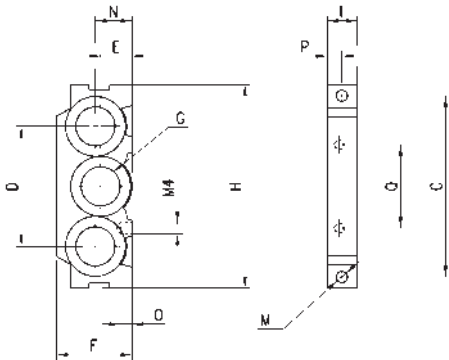
DIMENSIONS						
Mod.	D	E	F	H	L1	N
CNVL-311	46	12	29	78	23	14
CNVL-411	60	14	29	98	26	-

CNVL-311: for Series 3, G1/8
CNVL-411: for Series 3, G1/4

Terminal module Mod. CNVL-*H



The following is supplied:
2x fixing nuts



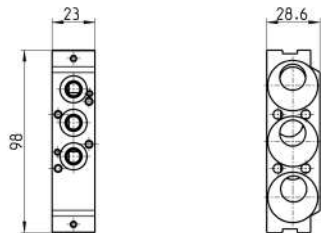
DIMENSIONS												
Mod.	C	D	E	F	H	I	M	N	O	P	Q	G
CNVL-3H	69,5	46	12	29	78	11,5	4,3	14	5	6	32	3/8
CNVL-4H	88	60	14	29	98	13	4,3	-	5	8	29	1/2

CNVL-3H: for Series 3, G1/8
CNVL-4H: for Series 3, G1/4

Interface module manifold between Series 3 G1/8 and G1/4



The following is supplied:
3x interface seal
2x screws
2x pins
4x plugs
6x O-Rings



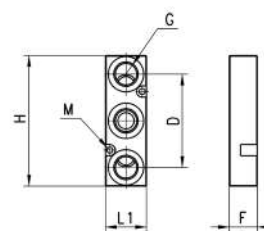
Mod.
CNVL-4H-3H

It is possible to seat 1 valve, series 3
with G1/8 port.

Intermediate plate for additional inlet and exhaust pressure



The following is supplied:
3x O-Rings
2x fixing screws



DIMENSIONS							
Mod.	G	H	M	F	L1	D	F
CNVL-3P	G1/4	70	3.2	29	22	50	15
CNVL-4P	G1/4	73	3.2	29	25	50	20

CNVL-3P: for Series 3, G1/8

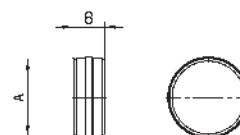
CNVL-4P: for Series 3, G1/4

Separation diaphragm



For separation of channel: 1 - 3 - 5.

The following is supplied:
1x diaphragm

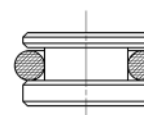


DIMENSIONS			
Mod.	A	B	
CNVL-3H-TP	15.6	6	for Series 3, G1/8
CNVL-4H-TP	23.8	8	for Series 3, G1/4

Blanking plug Mod. TCNVL for manifolds



The following is supplied:
1x blanking plug
1x O-Ring



DIMENSIONS		
Mod.		
TCNVL/3		for Series 3, G1/8
TCNVL/5		for Series 3, G1/4

Blanking plate Mod. CNVL for manifolds

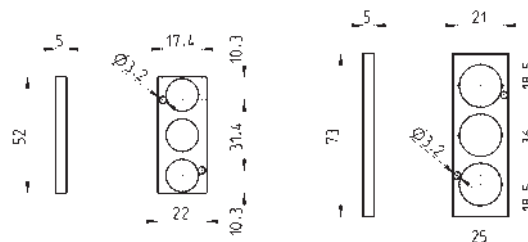
It is used to blank vacant positions of a manifold.



The following is supplied:
2x fixing screws
3x O-Rings

CNVL/1

CNVL/4



DIMENSIONS		
Mod.		
CNVL/1		for Series 3, G1/8
CNVL/4		for Series 3, G1/4