Series 4 valves and solenoid valves

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



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

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



Series 4 valves are equipped with a manual override which allows a stable operation and they are particularly suitable for mounting in arduous conditions.

All these valves can be operated by solenoids Series U, G A8 and H8. Moreover, valves with ports G1/2 only can be supplied with solenoids Series A6 (32x32).

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

GENERAL DATA

Constructionbalanced spool typeValve functions3/2 - 5/2 - 5/3-way CC CO CP

Materials AL body, spool and bases, technopolymer end cover, NBR PU seals

Ports G1/8 - G1/4 - G1/2 Installation in any position

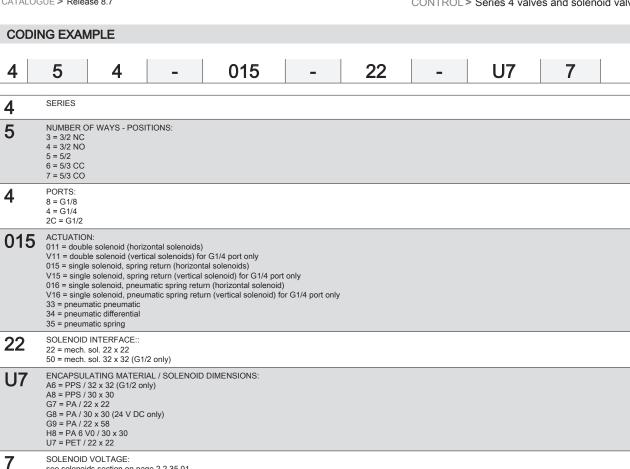
Operating temperature 0 ÷ 60°C (with dry air at -20°C)

Operating pressure see table

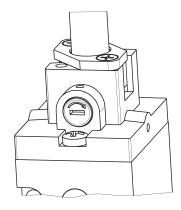
Fluid filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should

never be interrupted.

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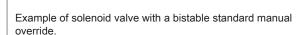


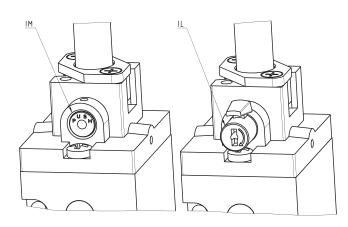
TYPES OF MANUAL OVERRIDE



see solenoids section on page 2.2.35.01 TYPE OF MANUAL OVERRIDE:

= bistable, standard IL = bistable, lever type (available on demand) IM = monostable (available on demand)





Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL). Both versions are available on demand. To order them it is necessary to add IM or IL at the end of the code. Code ex.: 454-015-22-U77IL.

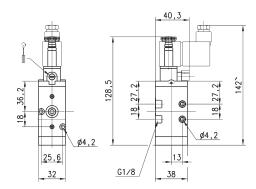




3/2-way solenoid valve G1/8, monostable - Mod. 438... and 448...

These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.



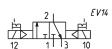


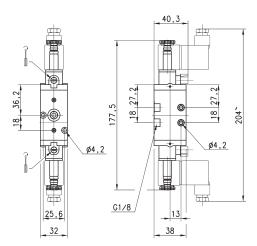
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
438-015-22	3/2 NC	650	2,5 ÷ 10	EV10
438-016-22	3/2 NC	650	2,5 ÷ 10	EV16
448-015-22	3/2 NO	650	2,5 ÷ 10	EV12
448-016-22	3/2 NO	650	2,5 ÷ 10	EV17



3/2-way solenoid valve G1/8, bistable - Mod. 438-011...

These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) operating status depending on the last pulse received.





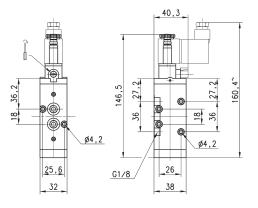
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
438-011-22	3/2	650	2 ÷ 10







These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.

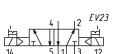


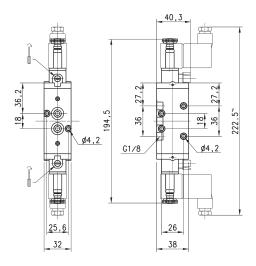


Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
458-015-22	5/2	650	2,5 ÷ 10	EV18
458-016-22	5/2	650	2,5 ÷ 10	EV21

5/2-way solenoid valves, G1/8, bistable - Mod 458-011...

These solenoid valves, with electropneumatic actuation and return, are suitable for operating double-acting cylinders.





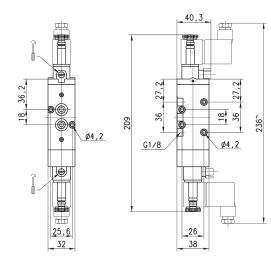
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
458-011-22	5/2	650	2 ÷ 10

5/3-way solenoid valve, G1/8 - Mod. 468-011... and 478-011...

CC = Centres Closed

CO = Centres Open





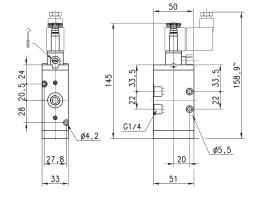
	41 12	EV28		41 12	EV32
₩.\				ĬI, II	
14	5 1 1 1 3	12	14	5 11 13	12

Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
468-011-22	5/3 CC	600	2 ÷ 10	EV28
478-011-22	5/3 CO	600	2 ÷ 10	EV32



3/2-way solenoid valve, G1/4, monostable Mod. 434 and Mod. 444

These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.



	2 EV10		2 EV16	, 2	EV12		2 EV17
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12	11 13	12	7 1 13	10 1	1 13	10	11 13

Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
434-015-22	3/2 NC	1250	2 ÷ 10	EV10
434-016-22	3/2 NC	1250	2 ÷ 10	EV16
444-015-22	3/2 NO	1250	2 ÷ 10	EV12
444-016-22	3/2 NO	1250	2 ÷ 10	EV17

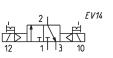


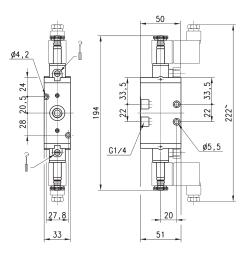


3/2-way solenoid valve, G1/4, bistable - Mod. 434-011...



These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) position depending on the last pulse received.





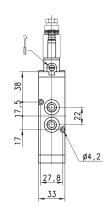
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
434-011-22	3/2	1250	2 ÷ 10

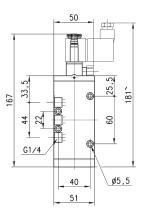


5/2-way solenoid valve, G1/4, monostable - Mod. 454...

These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.







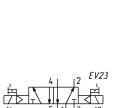
	4 2 EV18	1 1 1 1 1 1 1 1 1 1 1 1
	JI /TW	
14	5 11 13	14 5 1 1 3

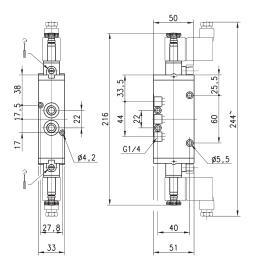
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
454-015-22	5/2	1250	2,5 ÷ 10	EV18
454-016-22	5/2	1250	2,5 ÷ 10	EV21



5/2-way solenoid valve, G1/4, bistable - Mod. 454-011...

These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.





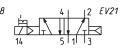
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
454-011-22	5/2	1250	2 ÷ 10

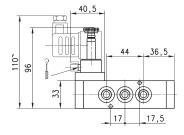


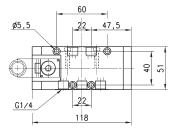
5/2-way solenoid valve, G1/4, monostable - Mod. 454-V...

These solenoid valves, which have electropneumatic actuation and spring or pneumatic spring return are suitable for operating double-acting cylinders.









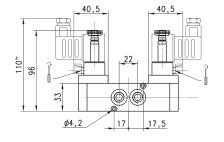
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
454-V15-22	5/2	1250	2,5 ÷ 10	EV18
454-V16-22	5/2	1250	2,5 ÷ 10	EV21

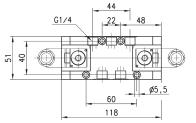


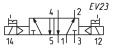
5/2-way solenoid valve, G1/4, bistable - Mod. 454-V11...



These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.







Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
454-V11-22	5/2	1250	2 ÷ 10

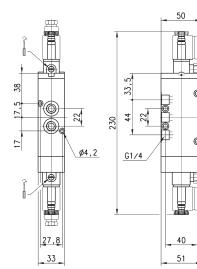


5/3-way solenoid valve, G1/4 - Mod. 464-011... e 474-011...

CC = Centres Closed

CO = Centres Open



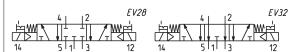


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Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
464-011-22	5/3 CC	1250	3 ÷ 10	EV28
474-011-22	5/3 CO	1250	3 ÷ 10	EV32

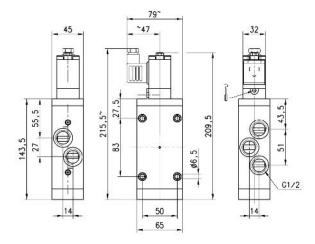


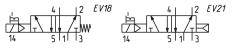


5/2-way solenoid valve, G1/2, monostable - Mod. 452C...



These solenoid valves, which have electropneumatic actuation and spring or pneumatic spring return are suitable for operating doubleacting cylinders.





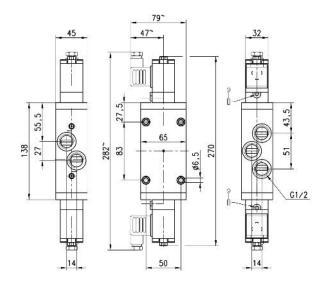
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
452C-015-50-A6*	5/2	2500	2,5 ÷ 10	EV18
452C-016-50-A6*	5/2	2500	2,5 ÷ 10	EV21



5/2-way solenoid valve, G1/2, bistable - Mod. 452C-011...

These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.

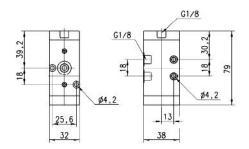




Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
452C-011-50-A6*	5/2	2500	2 ÷ 10

3/2-way valve, G1/8 port, monostable

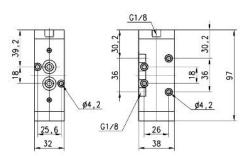




Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
438-35	in-line/on manifold	3/2 NC	700	2.5	-0.9 ÷ 10

5/2-way valve, G1/8 port, monostable





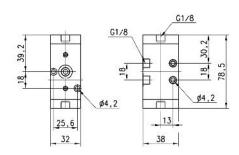
	4	2 VP04
\rightarrow	1	1 1 3 W
14	5	1 1 3

Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
458-35	in-line/manifold	5/2	700	2.5	-0.9 ÷ 10



3/2-way valve, G1/8 port, bistable

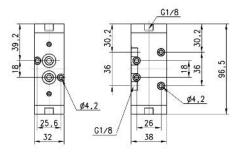




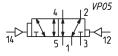
Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
438-33	in-line/on manifold	3/2	700	2	-0.9 ÷ 10	VP02
438-34	in-line/on manifold	3/2	700	2	-0.9 ÷ 10	VP03

5/2-way valve, G1/8 port, bistable





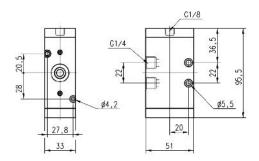




Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
458-33	in-line/on manifold	5/2	700	2	-0.9 ÷ 10	VP06
458-34	in-line/on manifold	5/2	700	2	-0.9 ÷ 10	VP05

3/2-way valve, G1/4 port, monostable

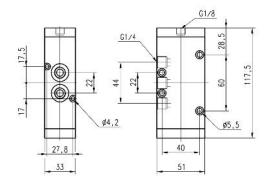




Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
434-35	in-line/on manifold	3/2 NC	1250	2.5	-0.9 ÷ 10

5/2-way valve, G1/4 port, monostable





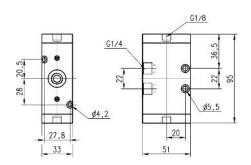
	4	I	2	VP04
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Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
454-35	in-line/on manifold	5/2	1250	2.5	-0.9 ÷ 10



3/2-way valve, G1/4 port, bistable

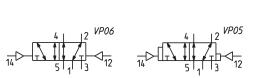


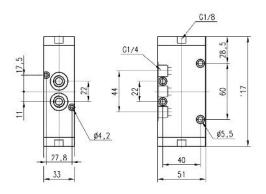


Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
434-33	in-line/on manifold	3/2 NC	1250	2	-0.9 ÷ 10	VP02
434-34	in-line/on manifold	3/2 NC	1250	2	-0.9 ÷ 10	VP03

5/2-way valve, G1/4 port, bistable

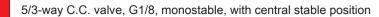






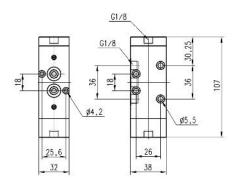
Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
454-33	in-line/on manifold	5/2	1250	2	-0.9 ÷ 10	VP06
454-34	in-line/on manifold	5/2	1250	2	-0.9 ÷ 10	VP05











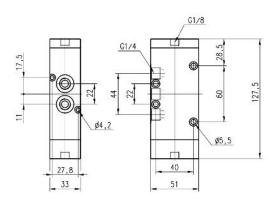
Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
468-33	in-line/on manifold	5/3 CC	700	2.5	-0.9 ÷ 10

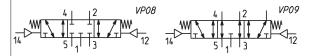
5/3-wa

5/3-way CC CO valve, G1/4, monostable, central stable position

CC = Centres Closed CO = Centres Open



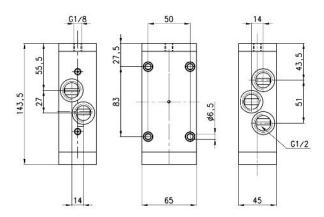




Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
464-33	in-line/on manifold	5/3 CC	1250	2.5	-0.9 ÷ 10	VP08
474-33	in-line/on manifold	5/3 CO	1200	2.5	-0.9 ÷ 10	VP09

5/2-way valve, G1/2 port, monostable

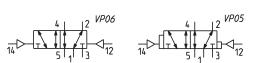


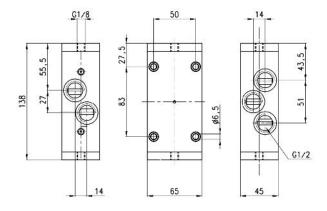


Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
452C-35	in-line	5/2	2500	2.5	-0.9 ÷ 10

5/2-way valve, G1/2 port, bistable







Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
452C-33	in-line	5/2	2500	2	-0.9 ÷ 10	VP06
452C-34	in-line	5/2	2500	2	-0.9 ÷ 10	VP05