

Series 9 valves and solenoid valves

5/2 and 5/3-way CC CO Sizes 1 - 2 - 3 According to the standard ISO 5599/1



Series 9 electropneumatically or pneumatically operated valves have been designed with sizes 1, 2 and 3, as recommended by the ISO Standards. The ease of pneumatic and electrical wiring makes these valves extremely flexible.

GENERAL DATA

max. press. 10 bar (for minimum pressures see descriptions) Operating pressure

Nominal pressure 6 bar

Nominal flow ISO 1 = 900 Nl/min ISO 2 = 1610 Nl/min ISO 3 = 4350 Nl/min

0 ÷ 60°C (with dry air at -20°C)

Operating temperature Fluid filtered air, without lubrication.

If lubricated air is used, it is recommended to use ISOVG32 oil and to never interrupt the lubrication.

Electropneumatic interface according CNOMO Standards

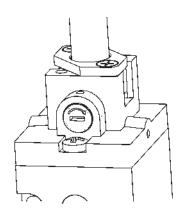


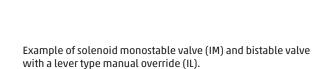
CODING EXAMPLE

9	5 1 - 000 - P16 - 23 - U7 7
9	SERIES
5	NUMBER OF WAYS - POSITIONS: 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO
1	SIZE: 1 = size 1 2 = size 2 3 = size 3
000	BODY DESIGN: 000 = valve body
P16	ACTUATION: 33 = pneumatic, pneumatic return 34 = pneumatic, differential pneumatic return 35 = pneumatic, mechanical spring return P11 = double solenoid (horizontal solenoids) P15 = single solenoid, spring return (horizontal solenoids) P16 = solenoid, pneumatic spring return (horizontal solenoids)
23	SOLENOID INTERFACE AND MANUAL COMMAND: 23 = A531-BC2 standard bistable manual override 23IL = A531-BC2 lever type bistable manual override 23IM = A531-BC2 monostable manual override
U7	SOLENOID MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 × 30 G7 = PA / 22 × 22 G8 = PA / 30 × 30 (24 V DC only) G9 = PA / 22 × 58 H8 = PA 6 VO / 30 × 30 U7 = PET / 22 × 22
7	SOLENOID VOLTAGE (see the dedicated section 2.35)

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TYPES OF MANUAL OVERRIDE





Example of solenoid valve with a bistable standard manual override.



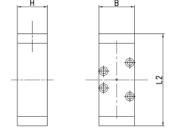
5/2 -way valves, monostable, bistable - ISO 1, ISO 2, ISO 3

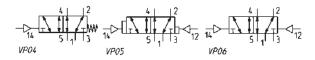


The Series 9 valves with ISO interface, size 1, 2 and 3, are available with the following types of actuation:

- pneumatic, with spring return
- pneumatic actuation and differential return
- pneumatic actuation and return

The following is supplied: 1x interface seal 4x fixing screws





DIMENSIONS							
Mod.	Size ISO	В	L2	Н	Min. pilot pressure (bar)	Working pressure (bar)	Symbol
951-000-35	1	38	98	32	2.5	-0.9 ÷ 10	VP04
952-000-35	2	51	118	33	2.5	-0.9 ÷ 10	VP04
953-000-35	3	65	163	45	2.5	-0.9 ÷ 10	VP04
951-000-34	1	38	98	32	2	-0.9 ÷ 10	VP05
952-000-34	2	51	118	33	2	-0.9 ÷ 10	VP05
953-000-34	3	65	163	45	2	-0.9 ÷ 10	VP05
951-000-33	1	38	98	32	2	-0.9 ÷ 10	VP06
952-000-33	2	51	118	33	2	-0.9 ÷ 10	VP06
953-000-33	3	65	163	45	2	-0.9 ÷ 10	VP06

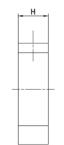
5/3-way valve, monostable, with stable central position - ISO 1, 2, 3



The Series 9 valves with ISO interface, size l, 2 and 3, are available with pneumatic actuation and central resetting by a spring. There are two types of function:

- with closed centres
- with open centres

The following is supplied: 1x interface seal 4x fixing screws





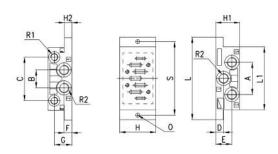
	4	2 VP08	}	4	12	VP09
14	51,17	WY 12	14 W	5 1	13	

DIMENSIONS							
Mod.	Size ISO	В	L2	Н	Min. pilot pressure (bar)	Working pressure (bar)	Symbol
961-000-33	1	38	108	32	2.5	-0.9 ÷ 10	VP08
962-000-33	2	51	128	33	2.5	-0.9 ÷ 10	VP08
963-000-33	3	65	173	45	2.5	-0.9 ÷ 10	VP08
971-000-33	1	38	108	32	2.5	-0.9 ÷ 10	VP09
972-000-33	2	51	128	33	2.5	-0.9 ÷ 10	VP09
973-000-33	3	65	173	45	2.5	-0.9 ÷ 10	VP09

SERIES 9 VALVES AND SOLENOID VALVES

Single sub-base side outlets (VDMA 24345)

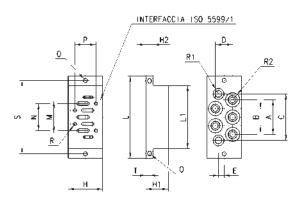




DIMENSIC	NS																
Mod.	Size	Α	В	С	D	Е	F	G	Н	Н1	H2	L	L1	0	R1	R2	S
901-F1A	1	43	24	58	10.5	21.5	10.5	23.5	48	32	10	110	84	5.5	G1/8	G1/4	98
902-F2A	2	56	30	74	14	26	14	30	57	40	13	124	95	6.5	G1/8	G3/8	112
903-F3A	3	68	32	90	17	17	17	22	71	32	18	149	119	6.5	G1/8	G1/2	136

Single sub-base with rear outlets (VDMA 24345)



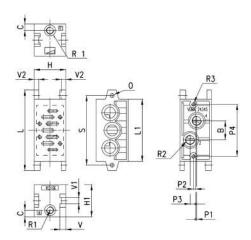


DIMENSIO	NS																			
Mod.	Size	Α	В	С	D	Е	Н	Н1	H2	L	L1	М	N	0	Р	R	R1	R2	S	T
901-G1A	1	46	23	61	23	7.5	46	30	10	110	84	18	36	5.5	28	M5	G1/8	G1/4	98	5
902-G2A	2	56	28	72	28	8	56	35	13	124	95	24	48	6.5	38	М6	G1/8	G3/8	112	6.5
903-G3A	3	68	34	90	34	10	71	32	18	149	119	32	64	6.5	48	M8	G1/8	G1/2	136	9

Manifold sub-base with com. exhausts and inlet (VDMA 24345)



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



DIMENSIO	NS																		
Mod.	Size	В	С	Н	Н1	L	L1	0	P1	P2	Р3	P4	R1	R2	R3	S	V	V1	V2
901-C1A	1	26	8.5	43	44	110	85	5.5	1.5	3	7.5	71	G1/8	G1/4	M5	95	8	8	6
902-C2A	2	30	9	56	45	135	100	6.5	5	3	6	86	G1/8	G3/8	М6	115	11	11	8
903-C3A	3	38	10	71	54	190	140	9	6	3	8	130	G1/8	G1/2	M8	168	13	13	8

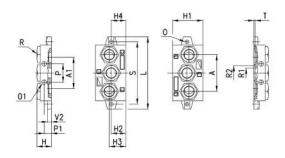
Note: complete with fixing screws and 0-ring.



End block for manifold sub-base (VDMA 24345)



The following is supplied: 2x end blocks (1 pair) 2x fixing screws 3x OR

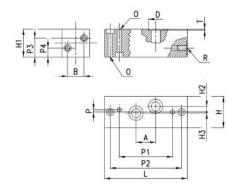


DIMENSI	ONS																		
Mod.	Size	Α	A1	Н	Н1	H2	Н3	Н4	L	0	01	Р	P1	R	ØR1	ØR2	S	T	V2
901-H1	1	56	48	22	46	22	25	22	110	5,5	7	28	11	G3/8	15	22,1	95	2	6
902-H2	2	68	63	26	47	23	25	24	135	6,5	9	35	13	G1/2	18,5	28,7	115	2	8
903-H3	3	104	94	30	56	22	25	25	190	9	12	52	15	G1	28	38	168	2,7	8

Interface with front outlets (VDMA 24345)



The following is supplied: 2x fixing screws 2x OR

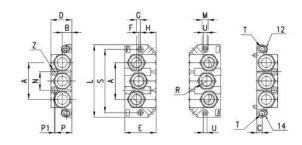


DIMENSI	DNS																
Mod.	Size	Α	В	D	Н	Н1	H2	Н3	L	0	Р	P1	P2	Р3	P4	R	Т
901-N1	1	26	22	19	42	37	7.5	1.5	110	5.5	3	71	95	25	12	G1/4	1.4
902-N2	2	30	29	23	55	40	6	5	135	6.5	3	86	115	26	14	G3/8	1.4
903-N3	3	38	36	27	70	45	8	6	190	9	3	130	168	29	17	G1/2	1.4

End blocks for manifold bases with front outlets



The following is supplied: 2x end blocks (1 pair) 2x fixing screws 3x OR



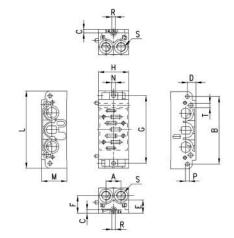
DIMENSIO	NS																		
Mod.	Size	Α	В	С	D	Е	F	G	Н	L	М	N	Р	P1	R	S	T	U	Z
901-HN1	1	56	14.5	8	32	48	2.5	6	24	110	9	28	25.5	1	3/8"	96	G1/8	5,5	3,5



Manifold bases with comm. inlet and exhaust ports and front outlet

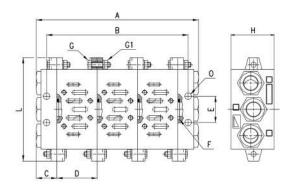


The following is supplied: 2x fixing screws 3x OR



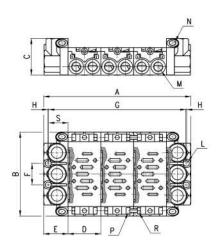
DIMENSIO	NS															
Mod.	Size	Α	В	С	D	Е	F	G	Н	L	М	N	Р	R	S	T
901-N1A	1	21.5	96	5	12	19	25	96	43	110	36	5.5	5.5	M5	G1/4	6.2

Assembly of manifold sub-base (VDMA 24345)



DIM	IENSIONS										
Size	А	В	С	D	Е	FOR	UNI 5739 G	UNI 57588 G1	Н	L	0
1	n°D+2C	n°D+C	22	43	28	3068	M5X20	M5	46	110	7
2	n°D+2C	n°D+C	26	56	35	3093	M6X25	M6	47	135	9
3	n°D+2C	n°D+C	30	71	52	4125	M8X25	M8	56	190	12

Assembly for front outlet manifold sub-bases



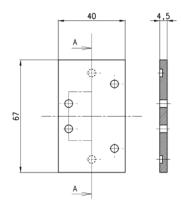
DIMENSIONS														
Size	А	В	С	D	Е	F	G	Н	L	М	N	UNI 5931 P.	UNI 5588 R	S
1	N° D+2E	110	48	43	32	28	n°D+25	1	3.5	G1/4	G1/8	M5X14	M5	25.5

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The following is supplied: 1x seal

4x screws

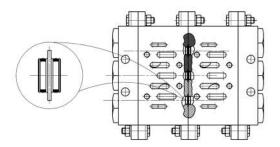


Mod. **901-TP**





Separation tap lines 1 - 3 - 5 to be used with manifold type 901-C1A and 902-C2A

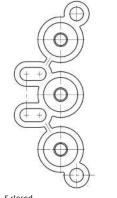


Mod. 901-C1A/TP 902-C2A/TP

Separation joint



Separation joint to be used with manifold type 901N





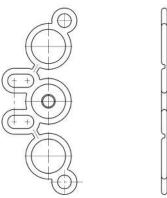
Mod. **901-N1A/T**

1 - 3 - 5 closed

Separation joint



Separation joint to be used with manifold type 901N. P plugged.



1 closed

Mod. 901-N1A/TP