Electropneumatically and pneumatically operated valves Series 9

5/2 and 5/3 way C.C. C.O. Sizes 1 - 2 - 3 Assembly with sub-base (ISO 5599/1 Standards)



The Series 9 electropneumatically or pneumatically operated valves have been manufactured in the sizes 1, 2 and 3, as recommended by the ISO Standards.

The ease of pneumatic and electrical wiring makes this valves series extremely flexible.

GENERAL DATA

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

Nominal pressure 6 bar

Nominal flow ISO 1= 900 NI/min ISO 2 = 1610 NI/min

ISO 3 = 4350 NI/min

Fluid filtered air, without lubrication If lubricated air is used, it is recommended to use ISOVG32 oil and to never interrupt the

lubrication.

Interface electropneumatic CNOMO Standards

COL	DING E	EXAMPLI	E											
9	5	1	-	С	1	В	-	P16	-	23	-	U	7	7
9		SERIES												
5		NO OF WAYS 5 = 5/2 6 = 5/3 Close 7 = 5/3 Open	d centres	NS:										
1		SIZE: 1 = size 1 2 = size 2 3 = size 3												
С		SUB-BASE: C = ISO (mar F = ISO (sing G = ISO (sing N = ISO (fron N1A = (front o	le sub-base le sub-base t outlet inte	e, side ports e, rear ports rface)										
1		PORTS (OUT Size 1 = G1/4 Size 2 = G3/8 Size 3 = G1/2	, 											
В		N° OF SUB-E A = 1 *B = 2 *C = 3 *D = 4 *E = 5 *F = 6 *H = 8 *K = 9 *L = 10 *M = 11 *N = 12 *P = 13 *S = 14	BASE:											

	23 = A531 - BC2
U	SOLENOID MATERIAL: U = PET G = PA

P 16

23

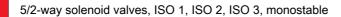
A8 = PPS H8 = PA 6 VO

SOLENOID INTERFACE:

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)

SOLENOID DIMENSIONS:
 7 = 22 x 22
 8 = 30 x 30
 9 = 22 x 58
 SOLENOID VOLTAGE:
 See solenoids page 2.2.35.01

^{*} Complete with two end - blocks Mod. 900-H or 900-HN.





The Series 9 solenoid valves with an ISO interface, size 1, 2 and 3, which have electropneumatic actuation and spring return, are suitable for mounting on a subbase.

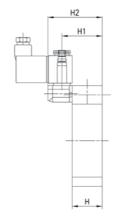
For electrical actuation, 2 types of solenoid, Mod. A70 and Mod. A80, are available with a wide range of voltages and power consumptions.

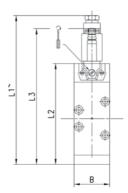
The following is supplied:

- 1x interface seals
- 4x fixing screws.









DIMENSIONS										
Mod.	Size ISO	В	L1	L2	L3	Н	H1	H2	Min. operating pressure	Symbol
951-000-P15-23	1	38	153	108	146	32	43	58	2,5	V
952-000-P15-23	2	51	173	128	166	33	44	59	2,5	V
953-000-P15-23	3	65	218	173	211	45	56	71	2,5	V
951-000-P16-23	1	38	153	108	146	32	43	58	2,5	Z
952-000-P16-23	2	51	173	128	166	33	44	59	2,5	Z
953-000-P16-23	3	65	218	173	211	45	56	71	2,5	Z

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



The Series 9 solenoid valves which have an ISO interface, size 1, 2 and 3, and which have electropneumatic actuation and return are suitable for mounting on a sub-base.

For electrical actuation, 2 types of solenoid, Mod. A70 and Mod. A80, are available with a wide range of voltages and power consumptions.

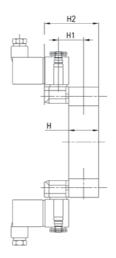
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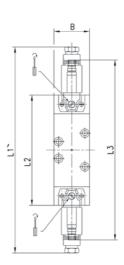
- 1x interface seal 4x fixing screws.











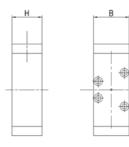
DIMENSIONS										
Mod.	Size ISO	В	L1	L2	L3	Н	H1	H2	Min. operating pressure	Symbol
951-000-P11-23	1	38	208	118	194	32	43	58	2,5	A1
952-000-P11-23	2	51	228	138	214	33	44	59	2,5	A1
953-000-P11-23	3	65	273	183	259	45	56	71	2,5	A1
961-000-P11-23	1	38	208	118	194	32	43	58	2,5	B1
962-000-P11-23	2	51	228	138	214	33	44	59	2,5	B1
963-000-P11-23	3	65	273	183	259	45	56	71	2,5	B1
971-000-P11-23	1	38	208	118	194	32	43	58	2,5	C1
972-000-P11-23	2	51	228	138	214	33	44	59	2,5	C1
973-000-P11-23	3	65	273	183	259	45	56	71	2,5	C1

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



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.





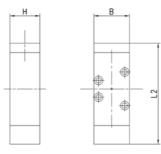
DIMENSIONS						
Mod.	Size ISO	В	L2	Н	Min. operating pressure	Symbol
951-000-35	1	38	98	32	2,5	Q1
952-000-35	2	51	118	33	2,5	Q1
953-000-35	3	65	163	45	2,5	Q1
951-000-34	1	38	98	32	2	T1
952-000-34	2	51	118	33	2	T1
953-000-34	3	65	163	45	2	T1
951-000-33	1	38	98	32	2	R1
952-000-33	2	51	118	33	2	R1
953-000-33	3	65	163	45	2	R1

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



The Series 9 valves with ISO interface, size I, 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 seals 4x fixing screws.



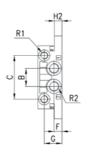


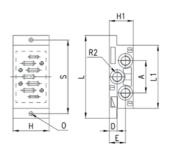
DIMENSIONS						
Mod.	Size ISO	В	L2	Н	Min. operating pressure	Symbol
961-000-33	1	38	108	32	2,5	U1
962-000-33	2	51	128	33	2,5	U1
963-000-33	3	65	173	45	2,5	U1
971-000-33	1	38	108	32	2,5	V1
972-000-33	2	51	128	33	2,5	V1
973-000-33	3	65	173	45	2,5	V1



Single sub-base side outlets (VDMA 24345)





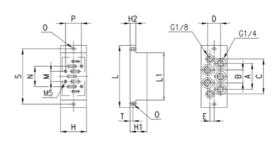


DIMENSIO	ONS																
Mod.	Size	Α	В	С	D	Е	F	G	Н	H1	H2	L	L1	0	R1	R2	S
901-F1A	1	43	24	58	21.5	10.5	10.5	23.5	48	32	10	110	84	5.5	G1/8	G1/4	98
902-F2A	2	56	30	74	26	14	14	30	57	40	13	124	95	6.5	G1/8	G3/8	112
903-F3A	3	68	32	90	17	17	17	22	71	32	18	149	119	6.5	G1/8	G1/2	136



Single sub-base with rear outlets (VDMA 24345)





DIMENSIC	DIMENSIONS Mod. Size A B C D E H H1 H2 L L1 M N O P R R1 R2 S T																			
Mod.	Size	Α	В	С	D	Е	Н	H1	H2	L	L1	М	N	0	Р	R	R1	R2	S	Т
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	M6	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

R1	
V2 H V2 0	R3
	R2 0 7d
RI V	P3 P1

DIMENSIO	DIMENSIONS																		
Mod.	Size	В	С	Н	H1	L	L1	0	P1	P2	P3	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	M6	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 O-ring.



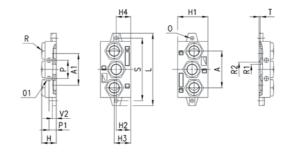
GENERAL CATALOGUE > Release 6.1

End block for manifold sub-base (VDMA 24345)

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







DIMENS	DIMENSIONS																		
Mod.	Size	Α	A1	Н	H1	H2	НЗ	H4	L	0	01	Р	P1	R	ØR1	ØR2	S	Т	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



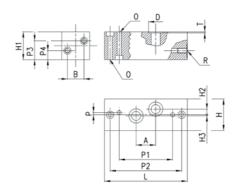
End block with front outlets (VDMA 24345)

The following is supplied:

2x fixing screws

2x OR





DIMENS	IONS																
Mod.	Size	Α	В	D	Н	H1	H2	НЗ	L	0	Р	P1	P2	P3	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

Note: complete with fixing screws and O-ring.



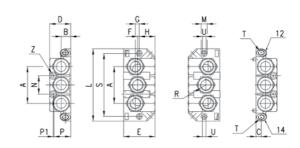
End blocks for manifold bases with front outlets

The following is supplied: 2x end blocks (1 pair)

2x fixing screws

3x OR

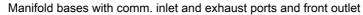




DIMENSIONS																			
Mod.	Size	Α	В	С	D	Е	F	G	Н	L	М	Ν	Р	P1	R	S	Т	U	Z
901-HN1	1	56	14.5	8	32	48	2.5	6	24	110	9	28	25.5	1	3/8"	96	G1/8	5,5	3,5

Note: complete with fixing screws and O-ring.

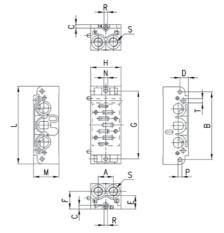




The following is supplied: 2x fixing screws

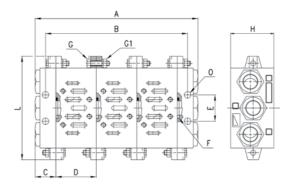
3x OR





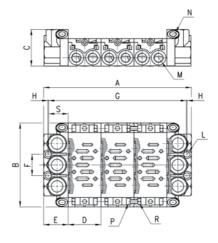
DIMENSIONS																
Mod.	Size	Α	В	С	D	Е	F	G	Н	L	М	N	Р	R	S	T
901-N1A	1	21.5	96	5	12	19	25	96	43	110	36	5.5	5.5	M5	G1/4	6.2

Assembly of manifold sub-base (VDMA 24345)



DIME	DIMENSIONS													
Size	Α	В	С	D	Е	F OR	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	Α	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

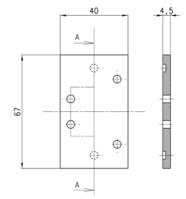


Cover plate for unused positions Mod. 901-TP

The following is supplied:

1x seal

4x screws



Mod.

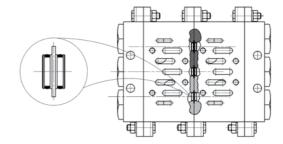
901-TP



Mounting example Mod. 901-C1A/TP and Mod. 902-C2A/TP

Separation tap lines 1/3/5 to be used with manifold type 901C - 902C.





Mod.

901-C1A-TP

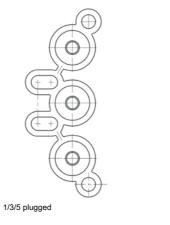
902-C2A-TP



Separation joint Mod. 901-N1A/T

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





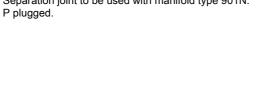
Mod.

901-N1A/T

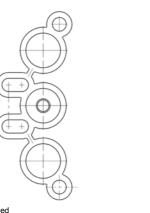
Separation joint Mod. 901-N1A/TP



Separation joint to be used with manifold type 901N.



Mod. 901-N1A / TP



1 plugged