

V50 ... V53 Series, 3/2, 5/2 or 5/3 Solenoid actuated and pilot operated spool valve

- Port size: 1/8 ... 1/2 (ISO G/NPT)
- High flow in-line valves
- Compact and robust design
- Low power energy efficient solenoids
- Flexible in-line and manifold mounting options



Technical features

Medium:

Compressed air, filtered (40 µm) lubricated or non lubricated

Operation:

Softseal spool valve, solenoid and pilot actuated

Port size:

1/8, 1/4, 3/8, 1/2

Mounting position:

In-line or sub-base

Operating pressure:

Details of minimum and maximum pressure see overleaf.

Flow:

See tables overleaf

Ambient/Media temperature:

Pilot models:

-5°C ... +60°C (+23 ... +140 °F)

Solenoid models:

-5°C ... +50°C (+23 ... +122 °F);

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35 °F).

Materials:

Body/sub-base: die-cast aluminium alloy or aluminium alloy, white painted

Softseal spool: NBR/aluminium alloy

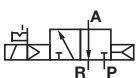
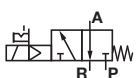
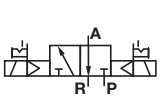
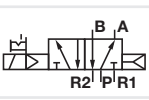
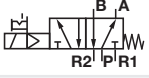
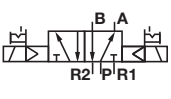
Mounting sheets/screws: steel

Springs: stainless steel

Electrical details for solenoid operators

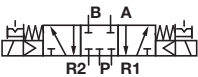
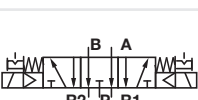
Voltage tolerance	± 10%
Rating	100% continuous duty
Inlet orifice	0,6 mm; V50 0,8 mm; V51 ... V53
Electrical connection (corresponding to choosen coil)	EN 175301-803 - Form C; 15 mm; V50 Industrial Standard; 22 mm; V51 ... V53
Solenoid coil mounting	Four positions x 90°
Manual override	Push and turn to lock (plastic)
Protection class	IP 65 (with sealed plug)

Technical data, 3/2 and 5/2 way valves, solenoid actuated, standard models

Symbol	Function	Port size	Actuation/return	Pilot supply	Operating pressure (bar)	Flow (l/min)	Manual override	Weight (kg)	Drawing No.	Model *1)
	3/2	G1/8	Solenoid/air	Internal	2 ... 8	480	Push & turn	0,120	1	V50A413A-A2
	3/2	G1/4	Solenoid/spring	Internal	2 ... 8	1020	Push & turn	0,203	2	V51B417A-A2
	3/2	G3/8	Solenoid/spring	Internal	2 ... 8	1705	Push & turn	0,350	2	V52C417A-A2
	3/2	G1/2	Solenoid/spring	Internal	2 ... 8	2480	Push & turn	0,353	2	V53D417A-A2
	3/2	G1/8	Solenoid/solenoid	Internal	2 ... 8	480	Push & turn	0,172	3	V50A411A-A2
	3/2	G1/4	Solenoid/solenoid	Internal	2 ... 8	1020	Push & turn	0,296	4	V51B411A-A2
	3/2	G3/8	Solenoid/solenoid	Internal	2 ... 8	1705	Push & turn	0,439	4	V52C411A-A2
	3/2	G1/2	Solenoid/solenoid	Internal	2 ... 8	2480	Push & turn	0,437	4	V53D411A-A2
	5/2	G1/8	Solenoid/air	Internal	2 ... 8	480	Push & turn	0,124	5	V50A513A-A2
	5/2	G1/4	Solenoid/spring	Internal	2 ... 8	1020	Push & turn	0,184	6	V51B517A-A2
	5/2	G3/8	Solenoid/spring	Internal	2 ... 8	1705	Push & turn	0,293	6	V52C517A-A2
	5/2	G1/2	Solenoid/spring	Internal	2 ... 8	2480	Push & turn	0,303	6	V53D517A-A2
	5/2	G1/8	Solenoid/solenoid	Internal	2 ... 8	480	Push & turn	0,176	7	V50A511A-A2
	5/2	G1/4	Solenoid/solenoid	Internal	2 ... 8	1020	Push & turn	0,292	8	V51B511A-A2
	5/2	G3/8	Solenoid/solenoid	Internal	2 ... 8	1705	Push & turn	0,452	8	V52C511A-A2
	5/2	G1/2	Solenoid/solenoid	Internal	2 ... 8	2480	Push & turn	0,190	8	V53D511A-A2

*1) Insert coil code from below tables.

Technical data, 5/3 way valves, solenoid actuated, standard models

Symbol	Function	Port size	Mid position	Actuation/return	Pilot supply	Operating pressure (bar)	Flow (l/min)	Manual override	Weight (kg)	Drawing No.	Model *1)
	5/3	G1/8	APB	Solenoid/solenoid	Internal	3 ... 8	270	Push & turn	0,338	9	V50A611A-A2
	5/3	G1/4	APB	Solenoid/solenoid	Internal	3 ... 8	755	Push & turn	0,387	10	V51B611A-A2
	5/3	G3/8	APB	Solenoid/solenoid	Internal	3 ... 8	1190	Push & turn	0,565	11	V52C611A-A2
	5/3	G1/2	APB	Solenoid/solenoid	Internal	3 ... 8	1910	Push & turn	0,634	11	V53D611A-A2
	5/3	G1/8	COE	Solenoid/solenoid	Internal	3 ... 8	270	Push & turn	0,338	9	V50A711A-A2
	5/3	G1/4	COE	Solenoid/solenoid	Internal	3 ... 8	755	Push & turn	0,387	10	V51B711A-A2
	5/3	G3/8	COE	Solenoid/solenoid	Internal	3 ... 8	1190	Push & turn	0,565	11	V52C711A-A2
	5/3	G1/2	COE	Solenoid/solenoid	Internal	3 ... 8	1910	Push & turn	0,634	11	V53D711A-A2
	5/3	G1/8	COP	Solenoid/solenoid	Internal	3 ... 8	270	Push & turn	0,338	9	V50A811A-A2
	5/3	G1/4	COP	Solenoid/solenoid	Internal	3 ... 8	755	Push & turn	0,387	10	V51B811A-A2
	5/3	G3/8	COP	Solenoid/solenoid	Internal	3 ... 8	1190	Push & turn	0,565	11	V52C811A-A2
	5/3	G1/2	COP	Solenoid/solenoid	Internal	3 ... 8	1910	Push & turn	0,634	11	V53D811A-A2

*1) Insert coil code from below tables.

APB = All Ports Blocked; COE = Centre Open Exhaust; COP = Centre Open Pressure

Voltage codes and spare coils

V50 series only

15 mm coil for connector interface acc. EN 175 301-803, form C				
	Voltage	Power Inrush/Hold	Model	Code
	12 V d.c.	2,9 W	V12958-A12	12A
	24 V d.c.	2,9 W	V12958-A13	13A
	110/120 V 50/60 Hz	3,7/3,1 VA	V12958-A18	18A
	220/240 V 50/60 Hz	3,7/3,1 VA	V12958-A19	19A

V51 ... V53 series

22 mm coil for connector interface acc. to industrial standard				
	Voltage	Power Inrush/Hold	Model	Code
	12 V d.c.	2 W	QM/48/12J/21	12J
	24 V d.c.	2 W	QM/48/13J/21	13J
	110/120 V 50/60 Hz	4/2,5 VA	QM/48/18J/21	18J
	220/240 V 50/60 Hz	6/5 VA	QM/48/19J/21	19J

Connector plugs - include of delivery

15 mm, EN 175301-803 (DIN 43650 B) Form C 2-pole + PE	Industrial standard 22 mm 2-pole + PE
	
V10027-D00	0657868

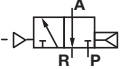
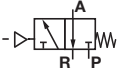
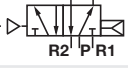
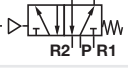
Option selector

V5★★★1★A-A2★★★

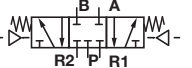
Thread size	Substitute
1/8"	0
1/4"	1
3/8"	2
1/2"	3
Thread	Substitute
G 1/8	A
G 1/4	B
G 3/8	C
G 1/2	D
NPT-Thread	Substitute
1/8 NPT	P
1/4 NPT	R
3/8 NPT	S
1/2 NPT	T

Voltage (Series V50)	Substitute
12 V d.c. 2,9 W	12A
24 V d.c. 2,9 W	13A
110/120 V a.c. (50/60 Hz) 3,7/3,1 VA	18A
220/240 V a.c. (50/60 Hz) 3,7/3,1 VA	19A
Voltage (Series V51 ... V53)	Substitute
12 V d.c. 2 W	12J
24 V d.c. 2 W	13J
110/120 V a.c. (50/60 Hz) 4/2,5 VA	18J
220/240 V a.c. (50/60 Hz) 6/5 VA	19J
Actuation	Substitute
Solenoid/air	3
Solenoid/spring	7
Solenoid/solenoid	1
Function	Substitute
3/2 Normally closed	4
5/2	5
5/3 All ports blocked	6
5/3 Centre open exhaust	7
5/3 Centre open pressure	8

Technical data, 3/2 or 5/2 way valves, pilot actuated, standard models

Symbol	Function	Port size	Pilot	Return	Operating pressure (bar)	Pilot pressure (bar)	Flow (l/min)	Weight (kg)	Drawing No.	Model
	3/2	G1/8	Air	Air spring	0 ... 8	1,5 ... 8	480	0,061	12	V50A4D3A-XA090
	3/2	G1/4	Air	Spring	0 ... 8	1,5 ... 8	1020	0,122	13	V51B4D7A-XA090
	3/2	G3/8	Air	Spring	0 ... 8	2 ... 8	1705	0,295	13	V52C4D7A-XA090
	3/2	G1/2	Air	Spring	0 ... 8	2 ... 8	2480	0,300	13	V53D4D7A-XA090
	3/2	G1/8	Air	Air	0 ... 8	1,5 ... 8	480	0,074	14	V50A4DDA-XA020
	3/2	G1/4	Air	Air	0 ... 8	1,5 ... 8	1020	0,134	15	V51B4DDA-XA020
	3/2	G3/8	Air	Air	0 ... 8	2 ... 8	1705	0,324	15	V52C4DDA-XA020
	3/2	G1/2	Air	Air	0 ... 8	2 ... 8	2480	0,326	15	V53D4DDA-XA020
	5/2	G1/8	Air	Air spring	0 ... 8	1,5 ... 8	480	0,071	16	V50A5D3A-XA090
	5/2	G1/4	Air	Spring	0 ... 8	1,5 ... 8	1020	0,106	17	V51B5D7A-XA090
	5/2	G3/8	Air	Spring	0 ... 8	2 ... 8	1705	0,236	17	V52C5D7A-XA090
	5/2	G1/2	Air	Spring	0 ... 8	2 ... 8	2480	0,275	17	V53D5D7A-XA090
	5/2	G1/8	Air	Air	0 ... 8	1,5 ... 8	480	0,084	18	V50A5DDA-XA020
	5/2	G1/4	Air	Air	0 ... 8	1,5 ... 8	1020	0,134	19	V51B5DDA-XA020
	5/2	G3/8	Air	Air	0 ... 8	2 ... 8	1705	0,236	19	V52C5DDA-XA020
	5/2	G1/2	Air	Air	0 ... 8	2 ... 8	2480	0,750	19	V53D5DDA-XA020

Technical data, 5/3 way valves, pilot actuated, standard models

Symbol	Function	Port size	Pilot	Mid position	Return	Operating pressure (bar)	Pilot pressure (bar)	Flow (l/min)	Weight (kg)	Drawing No.	Model
	5/3	G1/8	Air	APB	Air	0 ... 8	1,5 ... 8	270	0,095	20	V50A6DDA-XA020
	5/3	G1/4	Air	APB	Air	0 ... 8	1,5 ... 8	755	0,179	21	V51B6DDA-XA020
	5/3	G3/8	Air	APB	Air	0 ... 8	2 ... 8	1190	0,301	22	V52C6DDA-XA020
	5/3	G1/2	Air	APB	Air	0 ... 8	2 ... 8	1910	0,338	22	V53D6DDA-XA020
	5/3	G1/8	Air	COE	Air	0 ... 8	1,5 ... 8	270	0,095	20	V50A7DDA-XA020
	5/3	G1/4	Air	COE	Air	0 ... 8	1,5 ... 8	755	0,179	21	V51B7DDA-XA020
	5/3	G3/8	Air	COE	Air	0 ... 8	2 ... 8	1190	0,301	22	V52C7DDA-XA020
	5/3	G1/2	Air	COE	Air	0 ... 8	2 ... 8	1910	0,338	22	V53D7DDA-XA020
	5/3	G1/8	Air	COP	Air	0 ... 8	1,5 ... 8	270	0,095	20	V50A8DDA-XA020
	5/3	G1/4	Air	COP	Air	0 ... 8	1,5 ... 8	755	0,179	21	V51B8DDA-XA020
	5/3	G3/8	Air	COP	Air	0 ... 8	2 ... 8	1190	0,301	22	V52C8DDA-XA020
	5/3	G1/2	Air	COP	Air	0 ... 8	2 ... 8	1910	0,338	22	V53D8DDA-XA020

APB = All Ports Blocked; COE = Centre Open Exhaust; COP = Centre Open Pressure

Option selector

Thread size	Substitute	Thread	Substitute	NPT-Thread	Substitute	Air function	Substitute	Pilot port thread	Substitute	Return	Substitute	Function	Substitute
1/8"	0	G 1/8	A	1/8 NPT	P	Pilot operated/pilot return	2	G 1/8	A	Air spring	3	3/2 Normally closed	4
1/4"	1	G 1/4	B	1/4 NPT	R	Pilot operated/spring return	9	1/8 NPT	P	Spring	7	5/2	5
3/8"	2	G 3/8	C	3/8 NPT	S					Air	D	5/3 All ports blocked	6
1/2"	3	G 1/2	D	1/2 NPT	T							5/3 Centre open exhaust	7
												5/3 Centre open pressure	8

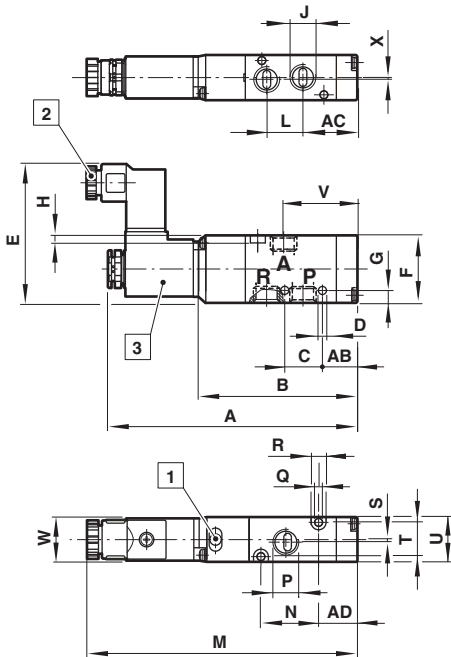
Manifold system and blanking plates

Manifold for 3 port valves			Blanking plate for 3 port valves		Manifold for 5 port valves		Blanking plate for 5 port valves	
								
For valve series	Page 14 ISO G thread NPT thread		Page 15		Page 14 ISO G thread NPT thread		Page 15	
V50 (1/8")	V50A3*1)	V50P3*1)	V500351		V50A5*1)	V50P5*1)	V500551	
V51 (1/4")	V51B3*1)	V51R3*1)	V510351		V51B5*1)	V51R5*1)	V510551	
V52 (3/8")	V52C3*1)	V52S3*1)	V520351		V52C5*1)	V52S5*1)	V520551	
V53 (1/2")	V53D3*1)	V53T3*1)	V530351		V53D5*1)	V53T5*1)	V530551	

*1) Number of station 02 ... 09 for 2 ... 9 stations
Number of station 10 for 10 stations

3/2 Single solenoid pilot valve, 1/8" port
Air return

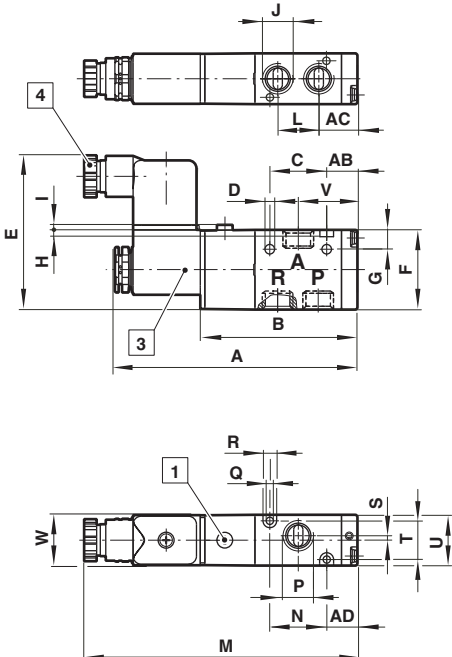
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- 1 Manual override (Push and Turn)
- 2 Gland size Pg 7

3/2 Single solenoid pilot valve,
1/4" ... 1/2" ports
Spring return

2



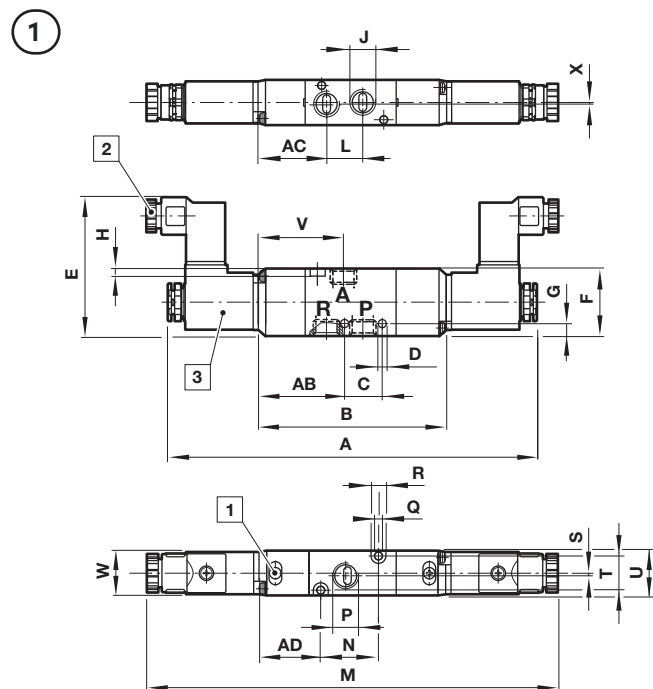
- 3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)
- 4 Gland size Pg 9

Dimensions in mm
Projection/First angle



Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	T	U	V	W	X
V50	1	99,5	13,5	21,5	15,5	65	15	3,2	55,5	27	5	3	—	1/8"	14,5	108	23	1/8"	3,2	6	1	13	18	29,5	16	0,5
V51	2	106,5	13,5	17	13,5	69	25	4,2	67	35	8,5	3	3	1/4"	18	120	25	1/4"	3,2	6	2	17	22,5	26	22	—
V52	2	126,5	13	26	15	89	26	4,5	73	46,5	39,5	4	3	3/8"	26	139,5	41	3/8"	4,5	8	—	23	30	41	22	—
V53	2	133	12,5	27	15	96	29	4,5	73	46,5	39,5	4	3	1/2"	29	146	48	1/2"	4,2	8	2,5	23	30	40,5	22	—

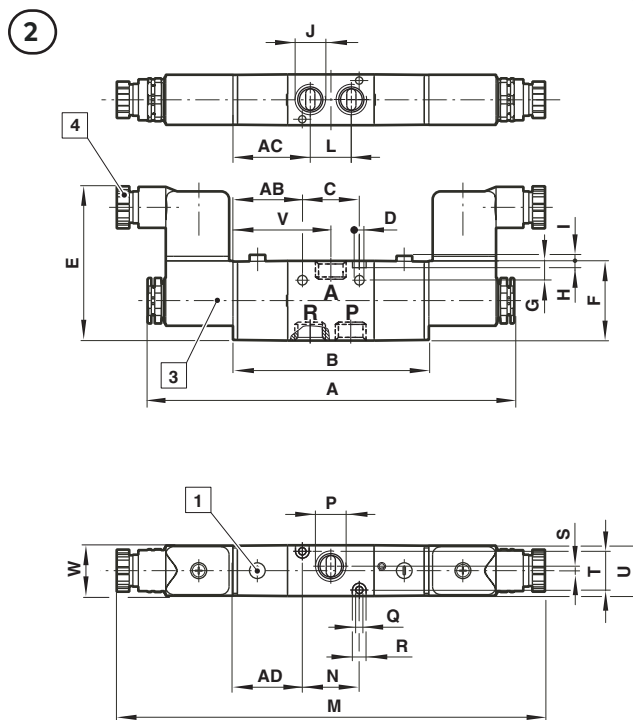
3/2 Double solenoid pilot valve, 1/8" port



- 1 Manual override (Push and Turn)
2 Gland size Pg 7

3/2 Double solenoid pilot valve, 1/4" ... 1/2" ports

Dimensions in mm
Projection/First angle

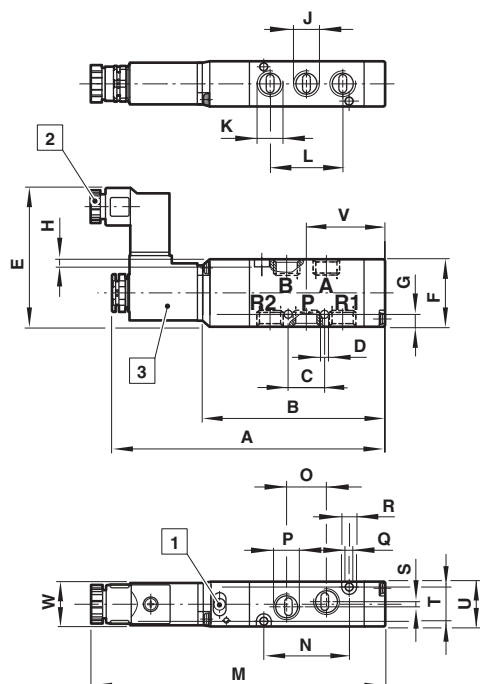


- 3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)
4 Gland size Pg 9

Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	T	U	V	W	X
V50	3	144,5	36,5	29	27	76,5	15	3,2	55,5	27	5	3	—	1/8"	14,5	161,5	23	1/8"	3,2	6	1	13	18	35,5	16	0,5
V51	4	144,5	30,5	34	30,5	86	25	4,2	67	35	8,5	3	3	1/4"	18	188	25	1/4"	3,2	6	2	17	22,5	43	22	—
V52	4	182	31	44	33	107	26	4,5	73	46,5	39,5	4	3	3/8"	26	208	41	3/8"	4,5	8	—	23	30	59	22	—
V53	4	188	30,5	45	33	114	29	4,5	73	46,5	39,5	4	3	1/2"	29	214	48	1/2"	4,2	8	2,5	23	30	58,5	22	—

5/2 Single solenoid pilot valve, 1/8" port Air return

5

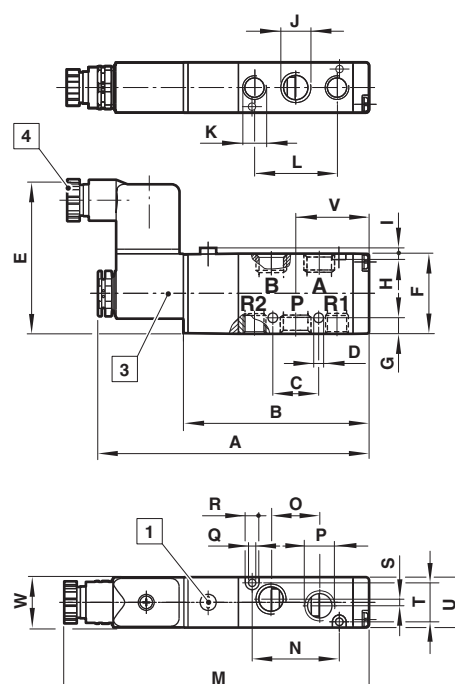


1 Manual override (Push and Turn)

2 Gland size Pg 7

5/2 Single solenoid pilot valve, 1/4"... 1/2" ports Spring return

6



3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)

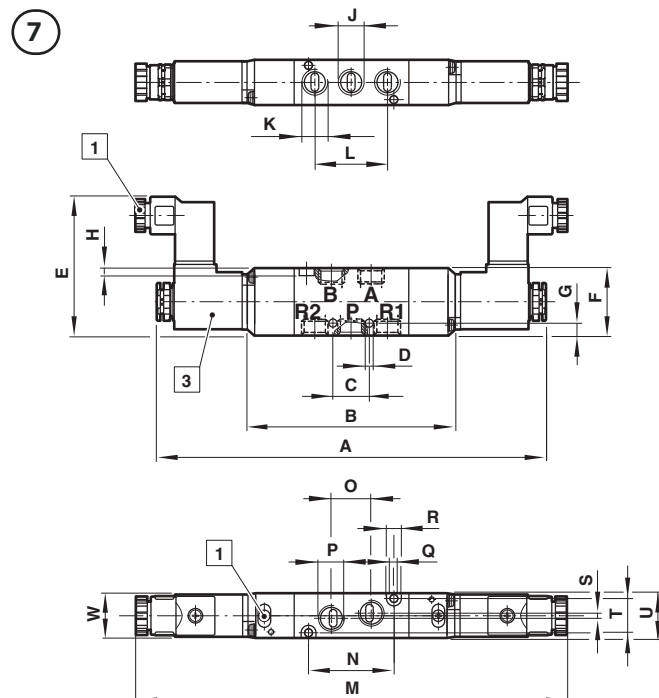
4 Gland size Pg 9

Dimensions in mm
Projection/First angle



Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
V50	5	110	76	14,5	3,2	54	27	5	3	—	1/8"	1/8"	29	118,5	34	16	1/8"	3,2	6	2	13	18	32,5	16
V51	6	118,5	81	20	4,2	67	35	7	3	3	1/4"	1/8"	36	132	38	21	1/4"	3,2	6	3	17	22,5	32	22
V52	6	145,5	108	26	5,5	73	46,5	4,5	4	3	3/8"	3/8"	52	158,5	13	30	3/8"	4,5	8	—	23	30	45	22
V53	6	157	120	29	4,5	73	46,5	7	4	3	1/2"	1/2"	58	170	72	28	1/2"	4,2	8	4,5	23	30	51	22

5/2 Double solenoid pilot valve, 1/8" port

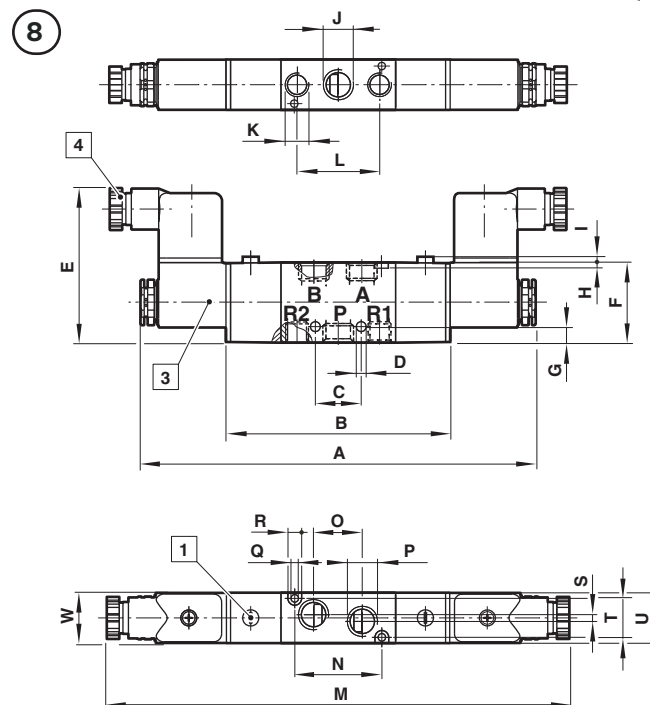


1 Manual override (Push and Turn)

2 Gland size Pg 7

5/2 Double solenoid pilot valve, 1/4" ... 1/2" ports

Dimensions in mm
Projection/First angle

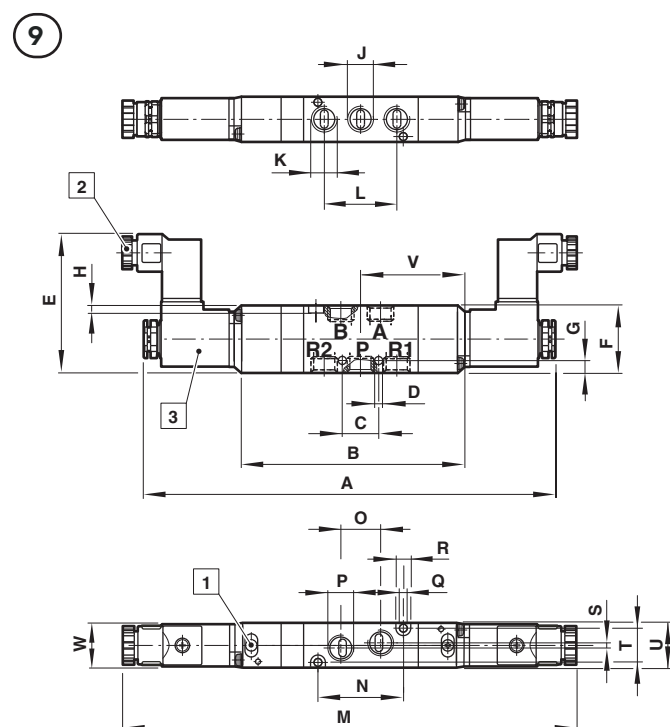


3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)

4 Gland size Pg 9

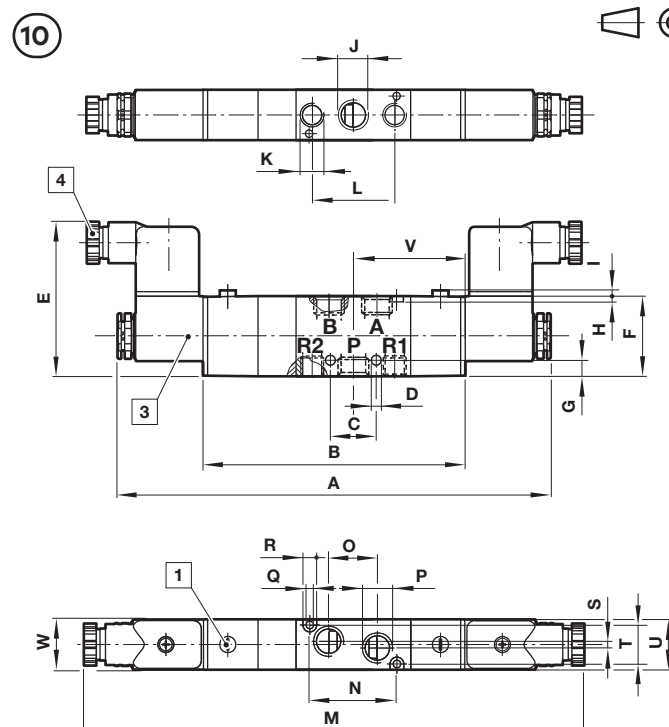
Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	W
V50	7	155	87	14,5	3,2	55	27	5	3	—	1/8"	1/8"	29	172	34	16	1/8"	3,2	6	2	13	18	16
V51	8	173	98	20	4,2	67	35	7	3	3	1/4"	1/8"	36	200	38	21	1/4"	3,2	6	3	17	22,5	22
V52	8	201	126	26	5,5	73	46,5	4,5	4	3	3/8"	3/8"	52	228	13	30	3/8"	4,5	8	—	23	30	22
V53	8	212	138	29	4,5	73	46,5	7	4	3	1/2"	1/2"	58	238	72	28	1/2"	4,2	8	4,5	23	30	22

5/3 Double solenoid pilot valve, 1/8" port

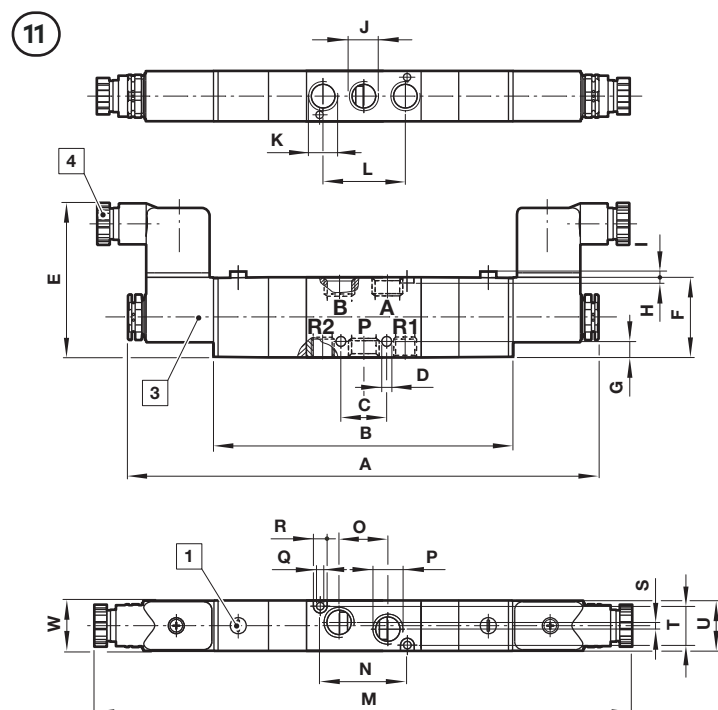


5/3 Double solenoid pilot valve, 1/4" port

Dimensions in mm
Projection/First angle



5/3 Double solenoid pilot valve, 3/8" and 1/2" ports

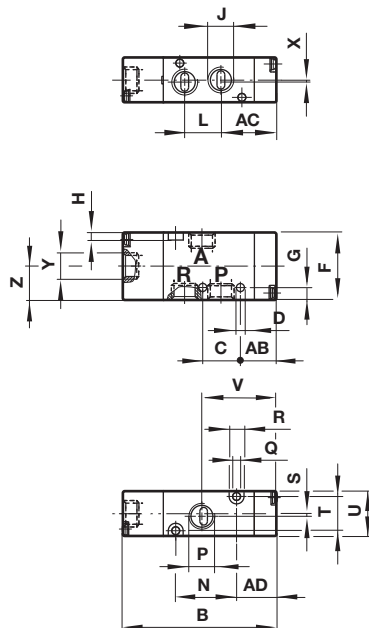


- 1 Manual override (Push and Turn)
- 2 Gland size Pg 7
- 3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)
- 4 Gland size Pg 9

Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
V50	9	164	96	14,5	3,2	55	27	5	3	—	1/8"	1/8"	29	181	34	16	1/8"	3,2	6	2	13	18	43,5	16
V51	10	194	119	20	4,2	67	35	7	3	3	1/4"	1/8"	36	221	38	21	1/4"	3,2	6	3	17	22,5	48,5	22
V52	11	254,5	179,5	26	5,5	73	46,5	4,5	4	3	3/8"	3/8"	52	281,5	13	30	3/8"	4,5	8	—	23	30	—	22
V53	11	265,5	191,5	29	4,5	73	46,5	7	4	3	1/2"	1/2"	58	291,5	72	28	1/2"	4,2	8	4,5	23	30	—	22

3/2 Single air pilot valve, 1/8" port Air spring return

12

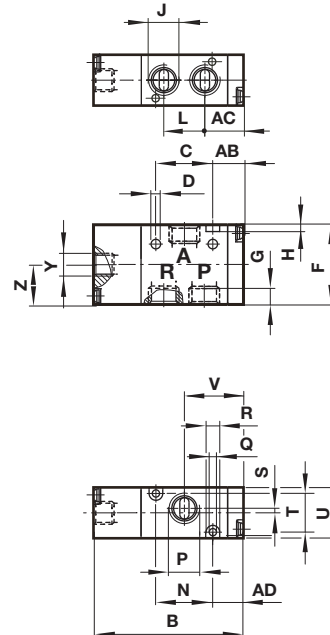


3/2 Single air pilot valve, 1/4" ... 1/2" ports Spring return

Dimensions in mm
Projection/First angle



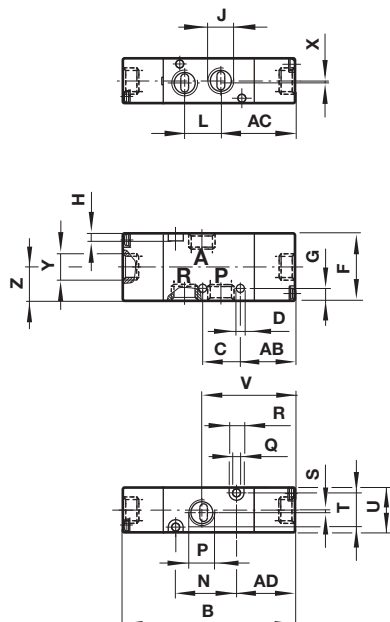
13



Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L	N	P	Q	R	S	T	U	V	X	Y	Z
V50	12	13,5	21,5	15,5	61,5	15	3,2	27	5	3	1/8"	14,5	23	1/8"	3,2	6	1	13	18	29,5	0,5	1/8"	13,5
V51	13	13,5	17	13,5	65,5	25	4,2	35	8,5	3	1/4"	18	25	1/4"	3,2	6	2	17	22,5	26	—	1/8"	17,5
V52	13	13	26	15	87	26	4,5	46,5	39,5	4	3/8"	26	41	3/8"	4,5	8	—	23	30	41	—	1/8"	17
V53	13	12,5	27	15	94	29	4,5	46,5	39,5	4	1/2"	29	48	1/2"	4,2	8	2,5	23	30	40,5	—	1/8"	17

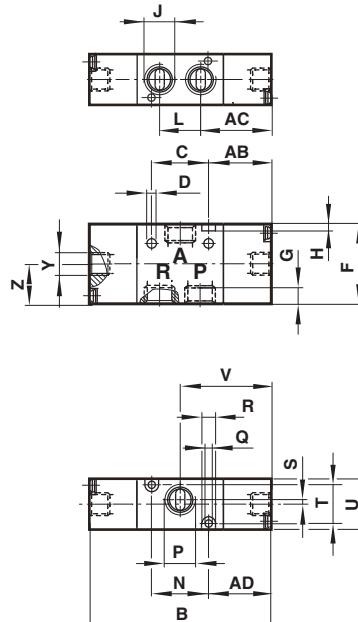
3/2 Double air pilot valve, 1/8" port

14



3/2 Double air pilot valve, 1/4" ... 1/2" ports

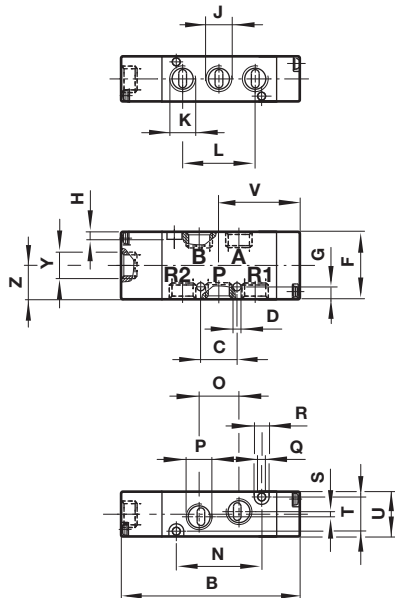
15



Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L	N	P	Q	R	S	T	U	V	X	Y	Z
V50	14	13,5	21,5	15,5	69	15	3,2	27	5	3	1/8"	14,5	23	1/8"	3,2	6	1	13	18	29,5	0,5	1/8"	13,5
V51	15	13,5	17	13,5	79	25	4,2	35	8,5	3	1/4"	18	25	1/4"	3,2	6	2	17	22,5	26	—	1/8"	17,5
V52	15	13	26	15	103	26	4,5	46,5	39,5	4	3/8"	26	41	3/8"	4,5	8	—	23	30	41	—	1/8"	17
V53	15	12,5	27	15	110	29	4,5	46,5	39,5	4	1/2"	29	48	1/2"	4,2	8	2,5	23	30	40,5	—	1/8"	17

5/2 Single air pilot valve, 1/8" port
Air spring return

16

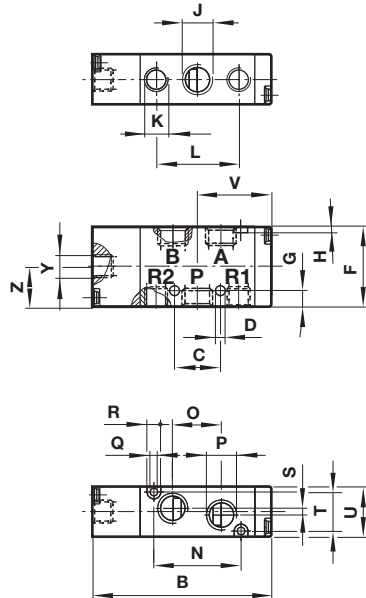


5/2 Single air pilot valve, 1/4" ... 1/2" ports
Spring return

Dimensions in mm
Projection/First angle



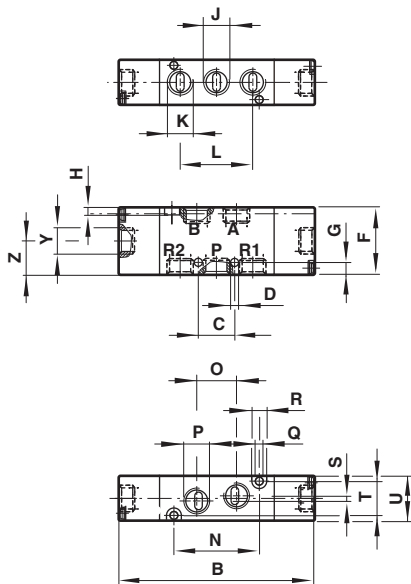
17



Series	Drawing	B	C	D	F	G	H	J	K	L	N	L	O	P	Q	R	S	T	U	V	Y	Z	Z
V50	16	72,5	14,5	3,2	27	5	3	1/8"	1/8"	29	34	14,5	16	1/8"	3,2	6	2	13	18	32,5	1/8"	13,5	13,5
V51	17	77,5	20	4,2	35	7	3	1/4"	1/8"	36	38	18	21	1/4"	3,2	6	3	17	22,5	32	1/8"	17,5	17,5
V52	17	106	26	5,5	46,5	4,5	4	3/8"	3/8"	52	13	26	30	3/8"	4,5	8	—	23	30	45	1/8"	17	17
V53	17	118	29	4,5	46,5	7	4	1/2"	1/2"	58	72	29	28	1/2"	4,2	8	4,5	23	30	51	1/8"	17	17

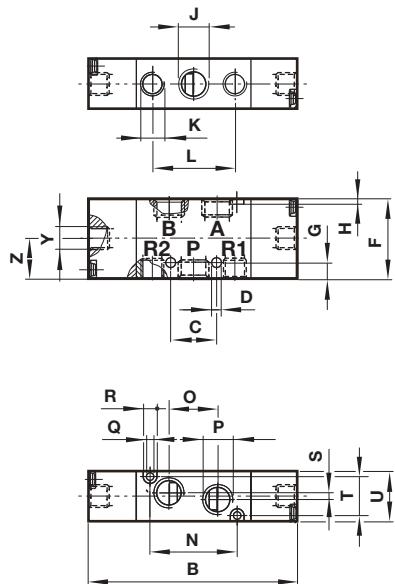
5/2 Double air pilot valve, 1/8" port

18



5/2 Double air pilot valve, 1/4" ... 1/2" ports

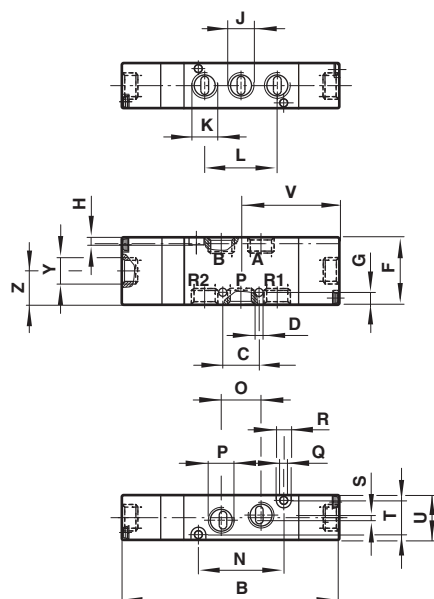
19



Series	Drawing	B	C	D	F	G	H	J	K	L	N	O	P	Q	R	S	T	U	Y	Z
V50	18	80	14,5	3,2	27	5	3	1/8"	1/8"	29	34	16	1/8"	3,2	6	2	13	18	1/8"	13,5
V51	19	91	20	4,2	35	7	3	1/4"	1/8"	36	38	21	1/4"	3,2	6	3	17	22,5	1/8"	17,5
V52	19	122	26	5,5	46,5	4,5	4	3/8"	3/8"	52	13	30	3/8"	4,5	8	—	23	30	1/8"	17
V53	19	134	29	4,5	46,5	7	4	1/2"	1/2"	58	72	28	1/2"	4,2	8	4,5	23	30	1/8"	17

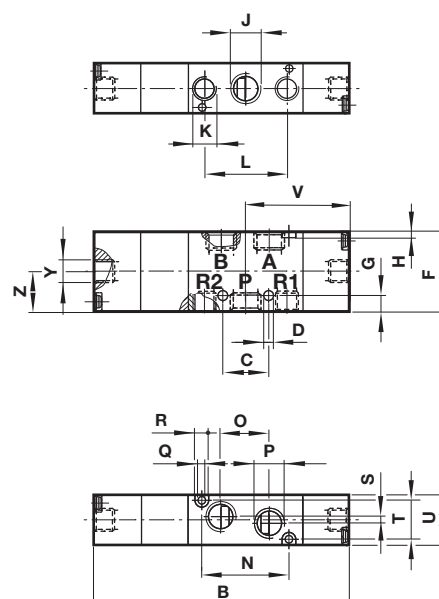
5/3 Double air pilot valve, 1/8" port

20



5/3 Double air pilot valve, 1/4" port

21

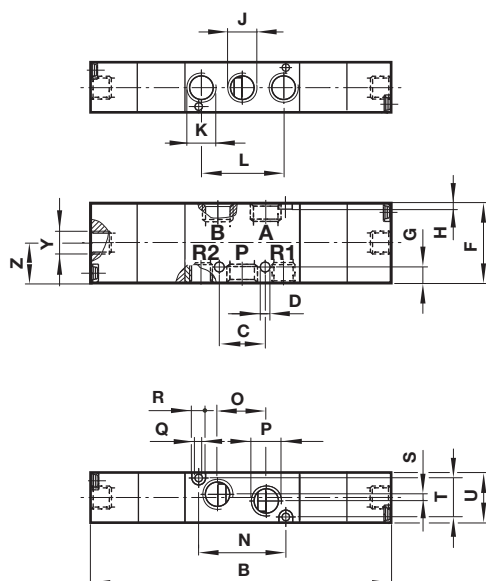


Dimensions in mm
Projection/First angle



5/3 Double air pilot valve, 3/8" and 1/2" ports

22

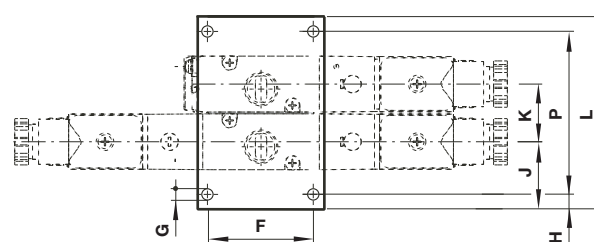
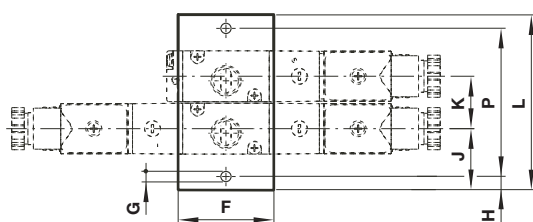
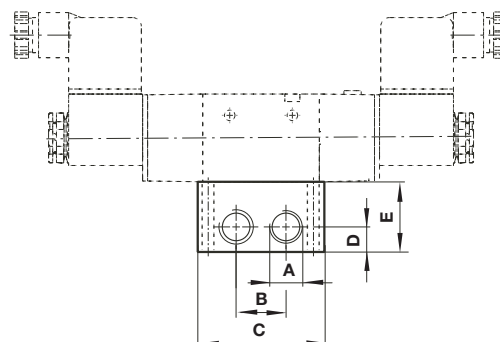
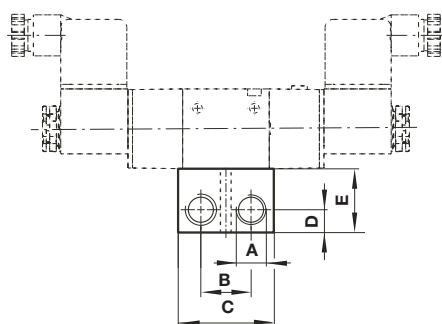


Series	Drawing	B	C	D	F	G	H	J	K	L	N	O	P	Q	R	S	T	U	V	Y	Z
V50	20	89	14,5	3,2	27	5	3	1/8	1/8"	29	34	16	1/8"	3,2	6	2	13	18	40	1/8"	13,5
V51	21	112	20	4,2	35	7	3	1/4	1/8"	36	38	21	1/4"	3,2	6	3	17	22,5	45,5	1/8"	17,5
V52	22	175,5	26	5,5	46,5	4,5	4	3/8	3/8"	52	13	30	3/8"	4,5	8	—	23	30	87,5	1/8"	17
V53	22	187,5	29	4,5	46,5	7	4	1/2	1/2"	58	72	28	1/2"	4,2	8	4,5	23	30	93,5	1/8"	17

Manifold system, 3/2 valves for V50 and V51

for V52 and V53

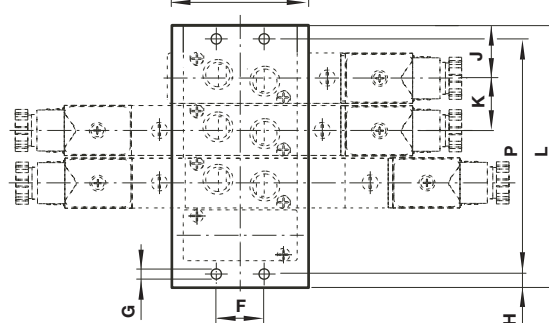
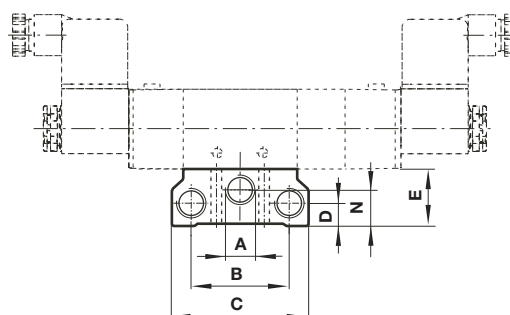
Dimensions in mm
Projection/First angle



Series	A	B	C	D	E	Ø G	H	J	K	L	P	Weight (kg)
V50	1/4"	22	42	10	28	4,5	5	19	19	19 + (N x 19)	9 + (N x 19)	0,05 + (N x 0,05)
V51	1/4"	22	42	10	28	4,5	6	27	23	31 + (N x 23)	19 + (N x 23)	0,08 + (N x 0,06)
V52	3/8"	26	66	11,5	27	4,5	5	25	31	19 + (N x 31)	9 + (N x 31)	0,06 + (N x 0,11)
V53	1/2"	30	72	15	32	4,5	5	25	31	19 + (N x 31)	9 + (N x 31)	0,07 + (N x 0,14)

N = Number of stations 2 ... 10

Manifold system, 5/2 and 5/3 valves

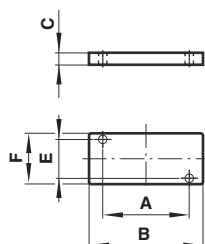


Series	A	B	C	D	E	F	Ø G	H	J	K	L	P	Weight (kg)
V50	1/4"	40	58	11	25	20	4,5	5	19	19	19 + (N x 19)	9 + (N x 19)	0,04 + (N x 0,04)
V51	1/4"	43	60	10	25	21	4,5	6	23	23	23 + (N x 23)	11 + (N x 23)	0,07 + (N x 0,06)
V52	3/8"	61	84	12	27	30	4,5	5	25	31	19 + (N x 31)	9 + (N x 31)	0,06 + (N x 0,09)
V53	1/2"	58	96	13	30	30	4,5	5	25	31	19 + (N x 31)	9 + (N x 31)	0,08 + (N x 0,15)

N = Number of stations 2 ... 10

Blanking plate

Dimensions in mm
Projection/First angle



For Function	Valve port size	A	B	C	E	F	Weight (kg)	Model
3/2	1/8	23	35	2	13	18	0,01	V500351
3/2	1/4	25	38	2	17	22,5	0,02	V510351
3/2	3/8	41	55	2	23	30	0,03	V520351
3/2	1/2	48	62	2	23	30	0,06	V530351
5/2	1/8	34	43	2	13	18	0,01	V500551
5/2	1/4	38	50	2	17	22,5	0,02	V510551
5/2	3/8	13	74	2	23	30	0,03	V520551
5/2	1/2	72	86	2	23	30,5	0,08	V530551

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.