High flow in-line valves

Compact and robust design

Low power energy efficient solenoids

High cycle life

Flexible in-line and fixed length manifold mounting options

Technical data

Connections:
1/8", 1/4", 3/8", and 1/2" NPT and ISO G
Medium:
Compressed air, filtered to 40 µm, lubricated or non-lubricated
Operation:
Softseal spool valve, solenoid and air pilot actuated
Mounting:
In-line or fixed length manifold
Maximum operating pressure: 116 psi (8 bar)
(Refer to Valve Selection Table for Minimum operating pressures.)

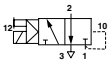
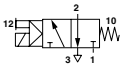
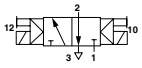
Flow Characteristics:

Size	Function	l/min	Cv
1/8	3/2 & 5/2	480	0.48
1/8	5/3	270	0.27
1/4	3/2 & 5/2	1020	1.02
1/4	5/3	755	0.75
3/8	3/2 & 5/2	1705	1.70
3/8	5/3	1190	1.19
1/2	3/2 & 5/2	2480	2.48
1/2	5/3	1910	1.91

Ambient & medium temperature:
23°F to 140°F (-5°C to 60°C) pilot models
23°F to 122°F (-5°C to 50°C) solenoid models
(consult our Technical Service for use below 36°F (2°C)

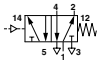
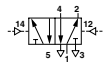
Materials
Body/sub-base: die-cast aluminum alloy or aluminum alloy
Softseal spool: NBR/aluminum alloy
Mounting screws: Plated steel
Springs: stainless steel

3/2 Air pilot valves

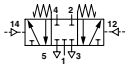
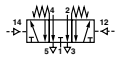
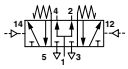
Symbol	Model	Port size (NPT)	Function*	Operator/ operator	Flow Cv	Operating pressure (psi)	Pilot pressure (psi	Weight (lbs)	Drawing No.
	V50P4D3A-XP0900	1/8	3/2 NC	Air/ Air spring	0.48	0 to 116	22 to 116	0.13	12
	V51R4D7A-XP0900	1/4	3/2 NC	Air/Spring	1.02	0 to 116	22 to 116	0.27	13
	V52S4D7A-XP0900	3/8	3/2 NC	Air/Spring	1.70	0 to 116	29 to 116	0.65	13
	V53T4D7A-XP0900	1/2	3/2 NC	Air/Spring	2.48	0 to 116	29 to 116	0.66	13
	V50P4DDA-XP0200	1/8	3/2	Air/Air	0.48	0 to 116	22 to 116	0.16	14
	V51R4DDA-XP0200	1/4	3/2	Air/Air	1.02	0 to 116	22 to 116	0.30	15
	V52S4DDA-XP0200	3/8	3/2	Air/Air	1.70	0 to 116	29 to 116	0.71	15
	V53T4DDA-XP0200	1/2	3/2	Air/Air	2.48	0 to 116	29 to 116	0.72	15

* NC = Normally Closed
NO = Normally Open

5/2 Air pilot valves

Symbol	Model	Port size (NPT)	Function	Operator/ operator	Flow Cv	Operating pressure (psi)	Pilot pressure (psi	Weight (lbs)	Drawing No.
	V50P5D3A-XP0900	1/8	5/2	Air/ Air spring	0.48	0 to 116	22 to 116	0.16	16
	V51R5D7A-XP0900	1/4	5/2	Air/Spring	1.02	0 to 116	22 to 116	0.23	17
	V52S5D7A-XP0900	3/8	5/2	Air/Spring	1.70	0 to 116	29 to 116	0.52	17
	V53T5D7A-XP0900	1/2	5/2	Air/Spring	2.48	0 to 116	29 to 116	0.61	17
	V50P5DDA-XP0200	1/8	5/2	Air/Air	0.48	0 to 116	22 to 116	0.19	18
	V51R5DDA-XP0200	1/4	5/2	Air/Air	1.02	0 to 116	22 to 116	0.30	19
	V52S5DDA-XP0200	3/8	5/2	Air/Air	1.70	0 to 116	29 to 116	0.52	19
	V53T5DDA-XP0200	1/2	5/2	Air/Air	2.48	0 to 116	29 to 116	1.65	19

5/3 Air pilot valves

Symbol	Model	Port size (NPT)	Function*	Operator/ operator	Flow Cv	Operating pressure (psi)	Pilot pressure (psi	Weight (lbs)	Drawing No.
	V50P6DDA-XP0200	1/8	5/3 APB	Air/Air	0.27	0 to 116	22 to 116	???	20
	V51R6DDA-XP0200	1/4	5/3 APB	Air/Air	0.75	0 to 116	22 to 116	0.39	21
	V52S6DDA-XP0200	3/8	5/3 APB	Air/Air	1.19	0 to 116	29 to 116	0.66	22
	V53T6DDA-XP0200	1/2	5/3 APB	Air/Air	1.91	0 to 116	29 to 116	0.75	22
	V50P7DDA-XP0200	1/8	5/3 COE	Air/Air	0.27	0 to 116	22 to 116	???	20
	V51R7DDA-XP0200	1/4	5/3 COE	Air/Air	0.75	0 to 116	22 to 116	0.39	21
	V52S7DDA-XP0200	3/8	5/3 COE	Air/Air	1.19	0 to 116	29 to 116	0.66	22
	V53T7DDA-XP0200	1/2	5/3 COE	Air/Air	1.91	0 to 116	29 to 116	0.75	22
	V50P8DDA-XP0200	1/8	5/3 COP	Air/Air	0.27	0 to 116	22 to 116	???	20
	V51R8DDA-XP0200	1/4	5/3 COP	Air/Air	0.75	0 to 116	22 to 116	0.39	21
	V52S8DDA-XP0200	3/8	5/3 COP	Air/Air	1.19	0 to 116	29 to 116	0.66	22
	V53T8DDA-XP0200	1/2	5/3 COP	Air/Air	1.91	0 to 116	29 to 116	0.75	22

* APB = All Ports Blocked, COE = Center Open Exhaust, COP = Center Open Pressure.

Air Pilot Valve Options selector

V5★★★D★A-X★0★00

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

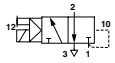
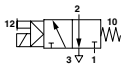
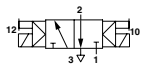
Return	Substitute
Double air pilot	2
Single air pilot	9
Pilot port thread	**Substitute**
1/8 NPT	P
G 1/8	A
Pilot	**Substitute**
Single air/Air spring (V50 only)	3
Single air/Spring return	7
Double air	D
Function	**Substitute**
3/2 Normally closed	4
5/2	5
5/3 All ports blocked	6
5/3 Center open exhaust	7
5/3 Center open pressure	8

Ordering example

To order a 5/2 valve, 3/8 NPT ports, air pilot, spring return

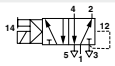
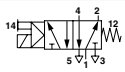
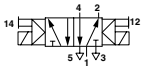
quote: V52S5D7A-XP0900

3/2 Solenoid pilot valves

Symbol	Model	Port size (NPT)	Function*	Pilot supply	Operator	Flow Cv	Operating pressure (psi)	Manual override	Weight (lbs)	Drawing No.
	V50P413A-A2***†	1/8	3/2 NC	Internal	Solenoid	0.48	29 to 116	Push & turn	0.26	1
	V51R417A-A2***†	1/4	3/2 NC	Internal	Solenoid/spring	1.02	29 to 116	Push & turn	0.45	2
	V52S417A-A2***†	3/8	3/2 NC	Internal	Solenoid/spring	1.70	29 to 116	Push & turn	0.77	2
	V53T417A-A2***†	1/2	3/2 NC	Internal	Solenoid/spring	2.48	29 to 116	Push & turn	0.79	2
	V50P411A-A2***†	1/8	3/2	Internal	Solenoid/solenoid	0.48	29 to 116	Push & turn	0.38	3
	V51R411A-A2***†	1/4	3/2	Internal	Solenoid/solenoid	1.02	29 to 116	Push & turn	0.65	4
	V52S411A-A2***†	3/8	3/2	Internal	Solenoid/solenoid	1.70	29 to 116	Push & turn	0.97	4
	V53T411A-A2***†	1/2	3/2	Internal	Solenoid/solenoid	2.48	29 to 116	Push & turn	0.96	4

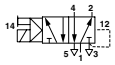
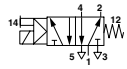
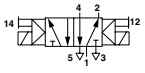
* NC = Normally closed
*** Insert coil code. † Insert Connector code.

5/2 Solenoid pilot valves

Symbol	Model	Port size (NPT)	Function	Pilot supply	Operator	Flow Cv	Operating pressure (psi)	Manual override	Weight (lbs)	Drawing No.
	V50P513A-A2***†	1/8	5/2	Internal	Solenoid/air	0.48	29 to 116	Push & turn	0.27	5
	V51R517A-A2***†	1/4	5/2	Internal	Solenoid/spring	1.02	29 to 116	Push & turn	0.41	6
	V52S517A-A2***†	3/8	5/2	Internal	Solenoid/spring	170	29 to 116	Push & turn	0.65	6
	V53T517A-A2***†	1/2	5/2	Internal	Solenoid/spring	2.48	29 to 116	Push & turn	0.67	6
	V50P511A-A2***†	1/8	5/2	Internal	Solenoid/solenoid	0.48	29 to 116	Push & turn	0.39	7
	V51R511A-A2***†	1/4	5/2	Internal	Solenoid/solenoid	1.02	29 to 116	Push & turn	0.64	8
	V52S511A-A2***†	3/8	5/2	Internal	Solenoid/solenoid	1.70	29 to 116	Push & turn	1.0	8
	V53T511A-A2***†	1/2	5/2	Internal	Solenoid/solenoid	2.48	29 to 116	Push & turn	0.42	8

*** Insert coil code. † Insert Connector code.

5/3 Solenoid pilot valves

Symbol	Model	Port size (NPT)	Function***†	Pilot supply	Operator	Flow Cv	Operating pressure (psi)	Manual override	Weight (lbs)	Drawing No.
	V50P611A-A2***†	1/8	5/3 APB	Internal	Solenoid/solenoid	0.27	44 to 116	Push & turn	0.75	9
	V51R611A-A2***†	1/4	5/3 APB	Internal	Solenoid/solenoid	0.75	44 to 116	Push & turn	0.85	10
	V52S611A-A2***†	3/8	5/3 APB	Internal	Solenoid/solenoid	1.19	44 to 116	Push & turn	1.25	11
	V53T611A-A2***†	1/2	5/3 APB	Internal	Solenoid/solenoid	1.91	44 to 116	Push & turn	1.40	11
	V50P711A-A2***†	1/8	5/3 COE	Internal	Solenoid/solenoid	0.27	44 to 116	Push & turn	0.75	9
	V51R711A-A2***†	1/4	5/3 COE	Internal	Solenoid/solenoid	0.75	44 to 116	Push & turn	0.85	10
	V52S711A-A2***†	3/8	5/3 COE	Internal	Solenoid/solenoid	1.19	44 to 116	Push & turn	1.25	11
	V53T711A-A2***†	1/2	5/3 COE	Internal	Solenoid/solenoid	1.91	44 to 116	Push & turn	1.40	11
	V50P811A-A2***†	1/8	5/3 COP	Internal	Solenoid/solenoid	0.27	44 to 116	Push & turn	0.75	9
	V51R811A-A2***†	1/4	5/3 COP	Internal	Solenoid/solenoid	0.75	44 to 116	Push & turn	0.85	10
	V52S811A-A2***†	3/8	5/3 COP	Internal	Solenoid/solenoid	1.19	44 to 116	Push & turn	1.25	11
	V53T811A-A2***†	1/2	5/3 COP	Internal	Solenoid/solenoid	1.91	44 to 116	Push & turn	1.40	11

* APB = All Ports Blocked, COE = Center Open Exhaust, COP = Center Open Pressure.
*** Insert coil code. † Insert Connector code.

V50 series
*** Voltage codes and spare solenoid kits

Voltage	Code	Power Inrush/hold	Replacement Coil Model
12 VDC	12A	2.5 W	V12958-A12
24 VDC	13A	2.5 W	V12958-A13
110/120 VAC 50/60 Hz	18A	3.7/3.1 VA	V12958-A18

V51 to V53 series
*** Voltage codes and spare solenoid kits

Voltage	Code	Power Inrush/hold	Replacement Coil Model
12 VDC	12J	2.0 W	54469-01
24 VDC	13J	2.0 W	54469-02
110/120 VAC 50/60 Hz	18J	4.0/2.5 VA	54469-03

† V50 solenoid connectors

Connectors, 15 mm, DIN 43650, Form 'C'

Code	Model	Description
B	V10027-D00	0 to 240 VAC/VDC
C	V10013-D03	0 to 240 VAC/VDC, 6 ft. molded cable
H	V10012-D13	12 to 24 VAC/VDC w/indicator light
J	V10012-D18	120 VAC/VDC w/indicator light

† V51, V52, and V53 solenoid connectors

Connectors, 22 mm, industrial standard

Code	Model	Description
B	54934-01	0 to 240 VAC/VDC.
C	54934-21	0 to 240 VAC/VDC, 6 ft. [1m] molded cable
H	54934-08	12 to 24 VAC/VDC w/indicator light
J	54934-02	120 VAC/VDC w/indicator light

Solenoid Valve Options selector

V5★★★1★A-A2★★★ ★

Thread size	Substitute
1/8"	0
1/4"	1
3/8"	2
1/2"	3

Thread type	Substitute
1/8 NPT	P
1/4 NPT	R
3/8 NPT	S
1/2 NPT	T
G 1/8	A
G 1/4	B
G 3/8	C
G 1/2	D

Connectors, 15 mm, DIN 43650, Form 'C'	Substitute
No connector	A
0 to 240 VAC/DC w/ cable grip	B
0 to 240 VAC/DC. w/ 6 ft.molded cable	C
12 to 24 VAC/VDC w/indicator light and cable grip	H
120 VAC/VDC w/indicator light and cable grip	J

Connectors, 22 mm industrial standard	Substitute
No connector	A
0 to 240 VAC/DC	B
0 to 240 VAC/DC, 6 ft. [1m] molded cable	C
12 to 24 VAC/VDC w/indicator light and cable grip	H
120 VAC/VDC w/indicator light and cable grip	J

Voltage (V50 valve series)	Substitute
12 VDC 2.5 W	12A
24 VDC 2.5 W	13A
110/120 VAC (50/60 Hz) 3.7/3.2 VA	18A

Voltage (V51 to V53 valve series)	Substitute
12 VDC 2.0 W	12J
24 VDC 2.0 W	13J
110/120 VAC (50/60 Hz) 4.0/2.5 VA	18J

Actuation	Substitute
Solenoid/ Air Spring (V50 only)	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 Center open exhaust	7
5/3 Center open pressure	8

Ordering example

To order a 5/2 solenoid valve, 1/4 NPT ports, spring return, 24 VDC, with DIN connector.

quote: V51R517A-A213JB

Electrical details for V50 solenoid operators

Voltage tolerances	+/- 10%
Rating	100 % Continuous duty
Inlet orifice	0.8 mm
Materials	PPS (body, FKM and NBR (seal)
Insulation class	F class
Connector type	DIN 43650 Table "C"
Protection class	IP65 (with sealed plugs)

Electrical details for V51 to V53 solenoid operators

Voltage tolerances	+/- 10%
Rating	100 % Continuous duty
Inlet orifice	0.8 mm
Materials	PPS (body), FKM and NBR (seal)
Insulation class	F class
Connector type	22 mm industrial standard
Protection class	IP65 (with sealed plugs)

Manifold system and blanking plates

	Manifold for 3 port valves		Blanking plate for 3 port valves	Silencers plastic		Silencers sintered bronze	
							
Series	NPT	BSPP		**NPT**	**BSP**	**NPT**	**BSP**
V50 (1/4")	V50P3**	V50A3**	V500351	C/S2	M/S2	MS002A	T40C2800
V51 (1/4")	V51R3**	V51B3**	V510351	C/S2	M/S2	MS002A	T40C2800
V52 (3/8")	V52S3**	V52C3v*	V520351	C/S3	M/S3	MS003A	T40C3800
V53 (1/2")	V53T3**	V53D3**	V530351	C/S4	M/S4	MS004A	T40C4800

** Number of station 02 to 10 stations
Example: 5 station manifold part number V51R305

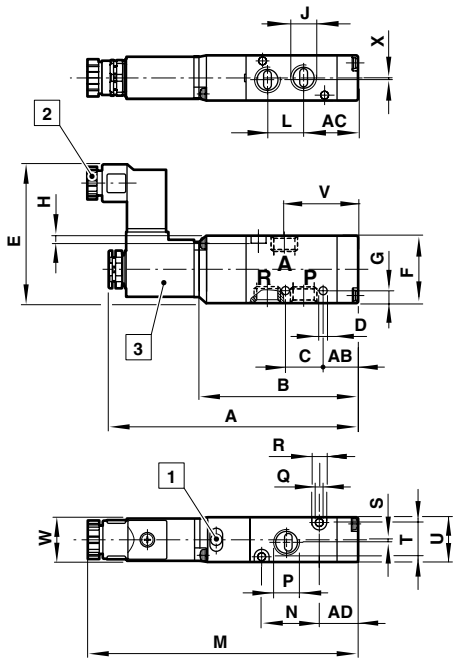
	Manifold for 5 port valves		Blanking plate for 5 port valves	Silencers plastic		Silencers sintered bronze	
							
Series	NPT	BSPP		**NPT**	**BSP**	**NPT**	**BSP**
V50 (1/4")	V50P5**	V50A5**	V500551	C/S2	M/S2	MS002A	T40C2800
V51 (1/4")	V51R5**	V51B5**	V510551	C/S2	M/S2	MS002A	T40C2800
V52 (3/8")	V52S5**	V52C5**	V520551	C/S3	M/S3	MS003A	T40C3800
V53 (1/2")	V53T5**	V53D5**	V530551	C/S4	M/S4	MS004A	T40C4800

** Number of station 02 to 10 stations
Example: 4 station manifold part number V50P504

Valve dimensions

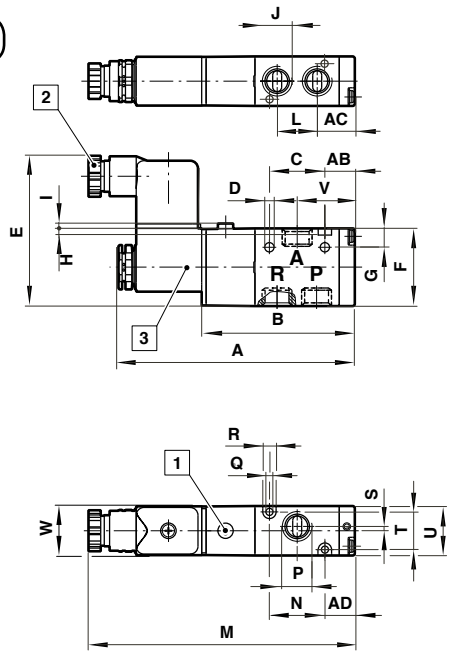
3/2 Single solenoid pilot valve, 1/8" port Air Spring return

1



3/2 Single solenoid pilot valve, 1/4"to 1/2" ports Mechanical spring return

2



1 Manual override (Push and Turn)
2 4-6 mm cable dia.
3 Solenoid rotates
2 x 180° (V50) 4 x 90° (V51toV53)
4 6-8 mm cable dia.

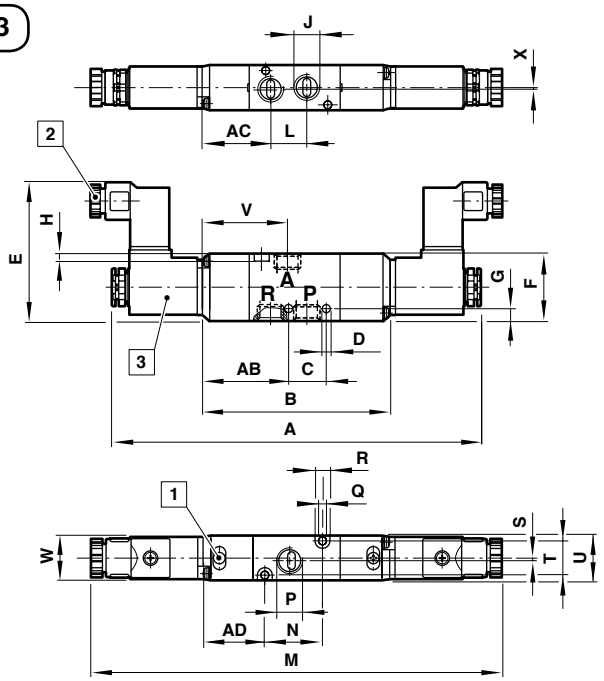
Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J
V50	1	3.92	0.53	0.85	0.59	2.56	0.59	0.13	2.19	1.06	0.20	0.12	-	1/8"
V51	2	4.23	0.53	0.67	0.53	2.72	0.98	0.17	2.68	1.38	0.33	0.12	0.12	1/4"
V52	2	4.98	0.51	1.02	0.59	3.50	1.02	0.18	2.87	1.83	1.56	0.16	0.12	3/8"
V53	2	5.24	0.49	1.06	0.59	3.78	1.14	0.18	2.87	1.83	1.56	0.16	0.12	1/2"

Series	Drawing	L	M	N	P	Q	R	S	T	U	V	W	X
V50	1	0.57	4.25	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.63	0.02
V51	2	0.71	4.72	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	0.87	-
V52	2	1.02	5.49	1.61	3/8"	0.18	0.31	-	0.91	1.18	1.61	0.87	-
V53	2	1.14	5.75	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	0.87	-

Dimensions in inches

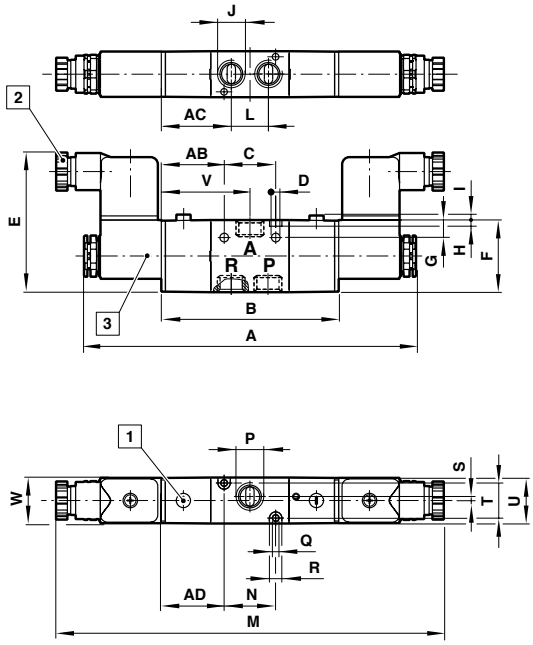
3/2 Double solenoid pilot valve, 1/8" port

3



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

4



1 Manual override (Push and Turn)
2 4-6 mm cable dia.
3 Solenoid rotates
2 x 180° (V50) 4 x 90° (V51toV53)
4 6-8 mm cable dia.

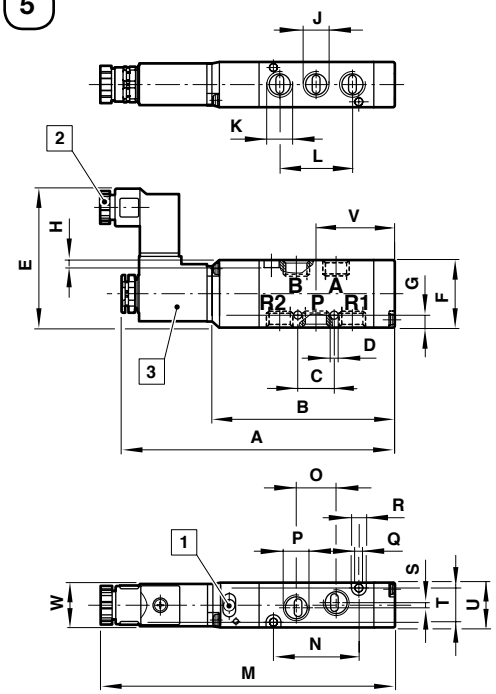
Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J
V50	3	5.69	1.44	1.14	1.06	3.01	0.59	0.13	2.19	1.06	0.20	0.12	-	1/8"
V51	4	5.75	1.20	1.34	1.20	3.39	0.98	0.17	2.68	1.38	0.33	0.12	0.12	1/4"
V52	4	7.17	1.22	1.73	1.30	4.21	1.02	0.18	2.87	1.83	1.56	0.16	0.12	3/8"
V53	4	7.40	1.20	1.77	1.30	4.49	1.14	0.18	2.87	1.83	1.56	0.16	0.12	1/2"

Series	Drawing	L	M	N	P	Q	R	S	T	U	V	W	X
V50	3	0.58	6.46	0.92	1/8"	0.13	0.24	0.04	0.52	0.72	1.42	0.64	0.02
V51	4	0.72	7.52	1.00	1/4"	0.13	0.24	0.08	0.68	0.90	1.72	0.88	-
V52	4	1.04	8.32	1.64	3/8"	0.18	0.32	-	0.92	1.20	2.38	0.88	-
V53	4	1.16	8.56	1.92	1/2"	0.17	0.32	0.10	0.92	1.20	2.34	0.88	-

Dimensions in inches

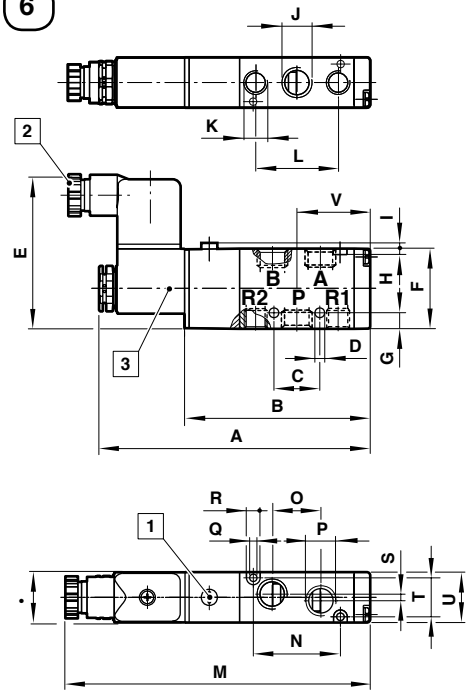
5/2 Single solenoid pilot valve, 1/8" port Air spring return

5



5/2 Single solenoid pilot valve, 1/4"to 1/2" ports Mechanical spring return

6



1 Manual override (Push and Turn)
2 4-6 mm cable dia.
3 Solenoid rotates
2 x 180° (V50) 4 x 90° (V51toV53)
4 6-8 mm cable dia.

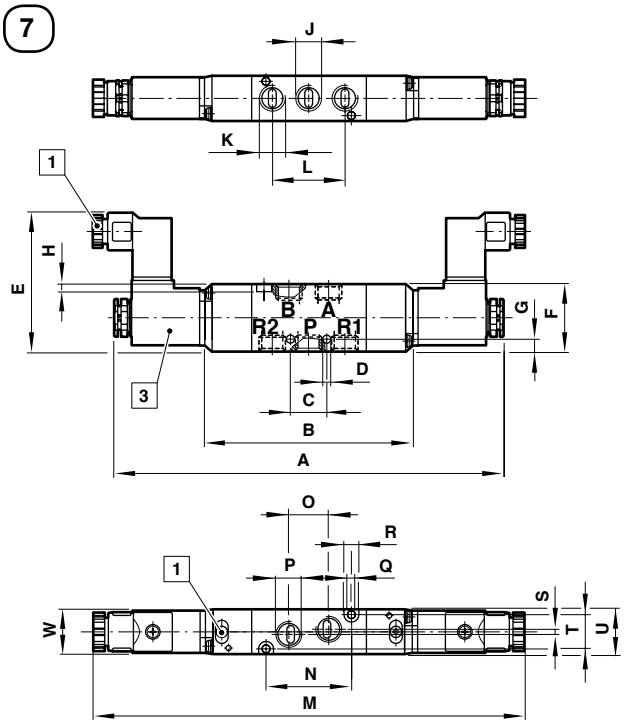
Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	5	4.25	2.99	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	6	4.55	3.19	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	6	5.59	4.25	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	6	6.18	4.72	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28

Series	Drawing	M	N	O	P	Q	R	S	T	U	V	W
V50	5	4.72	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	0.63
V51	6	5.12	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.26	0.87
V52	6	6.14	0.51	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	0.87
V53	6	6.69	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	0.87

Dimensions in inches

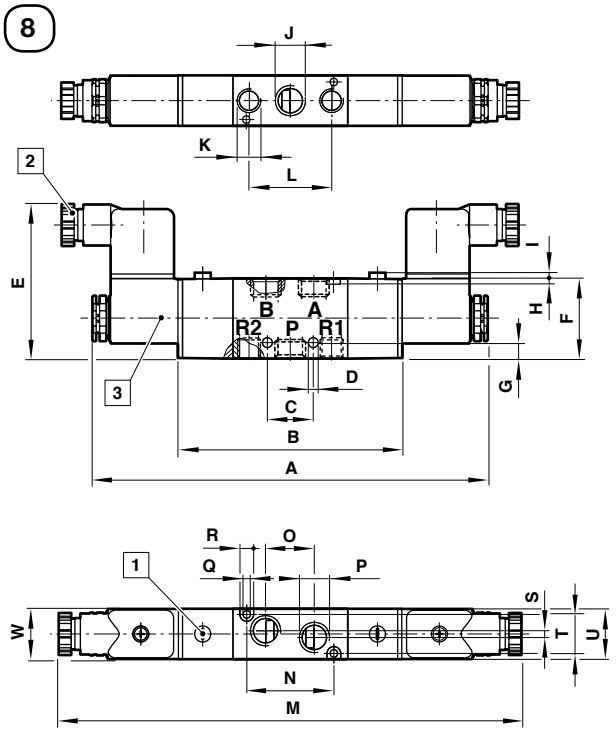
5/2 Double solenoid pilot valve, 1/8" port

7



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

8



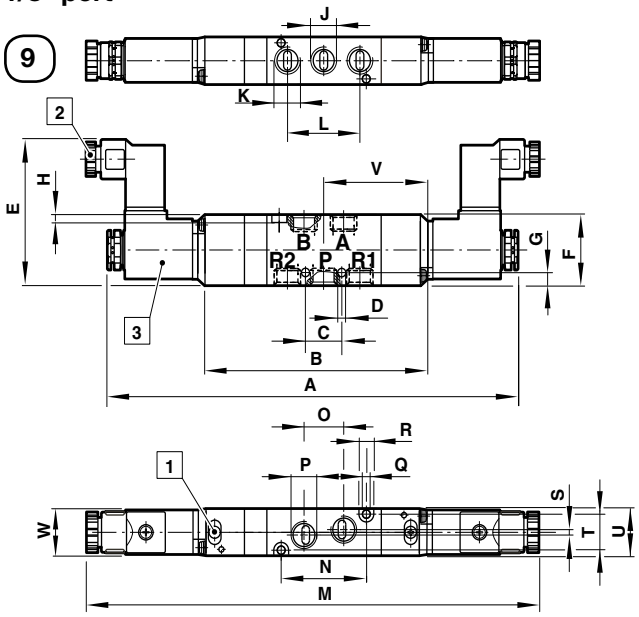
1 Manual override (Push and Turn)
2 4-6 mm cable dia.
3 Solenoid rotates
2 x 180° (V50) 4 x 90° (V51toV53)
4 6-8 mm cable dia.

Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	7	6.06	3.43	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	8	6.57	3.82	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	8	7.64	4.96	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	8	8.35	5.43	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28

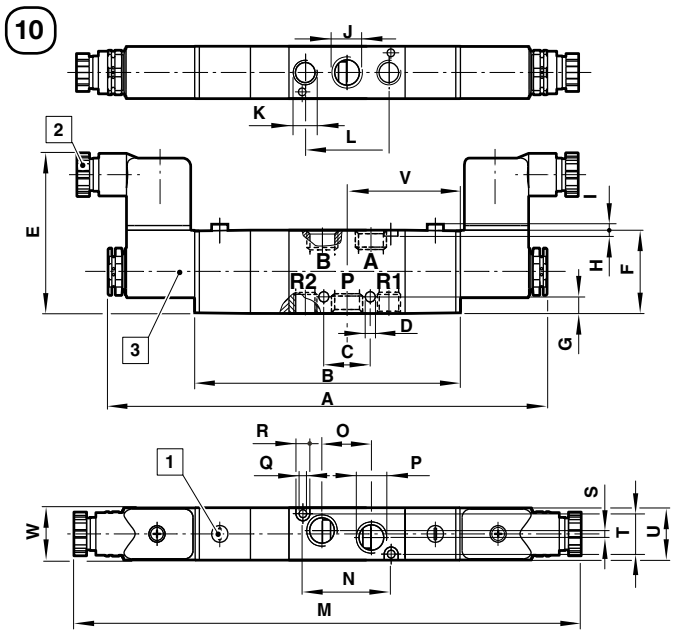
Series	Drawing	M	N	O	P	Q	R	S	T	U	W
V50	7	6.89	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	0.63
V51	8	7.80	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	0.87
V52	8	8.74	0.51	1.18	3/8"	0.18	0.31	-	0.91	1.18	0.87
V53	8	9.37	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	0.87

Dimensions in inches

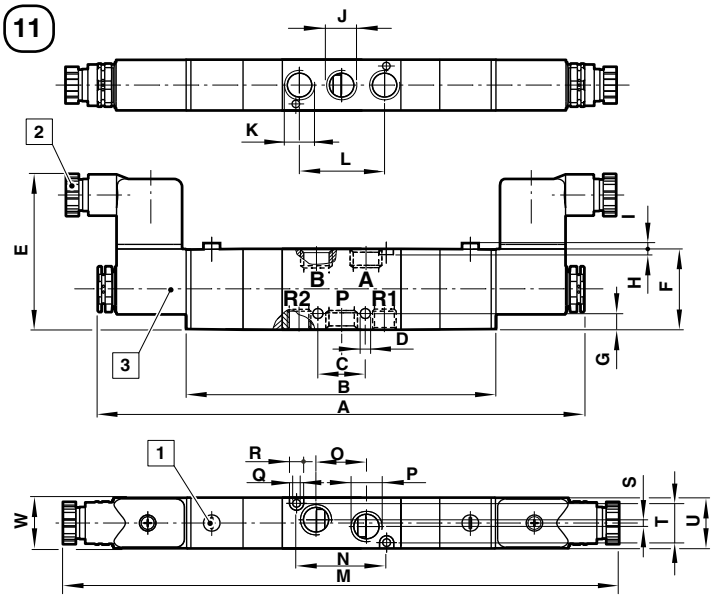
5/3 Double solenoid pilot valve, 1/8" port



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



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



1 Manual override (Push and Turn)

2 4-6 mm cable dia.

3 Solenoid rotates
2 x 180° (V50) 4 x 90° (V51toV53)

4 6-8 mm cable dia.

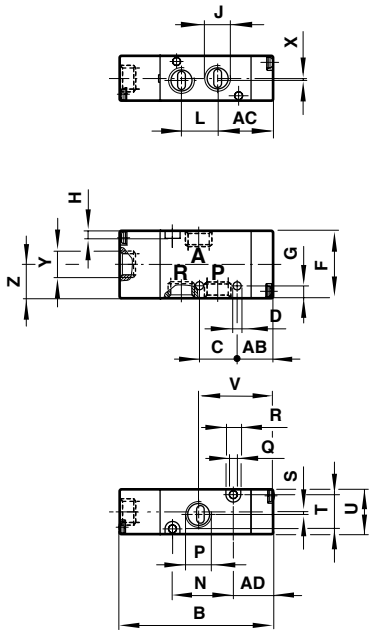
Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	9	6.42	3.78	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	10	7.40	4.69	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	11	9.61	7.07	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	11	10.45	7.54	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28

Series	Drawing	M	N	O	P	Q	R	S	T	U	V	W
V50	9	7.24	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.71	0.63
V51	10	8.62	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.91	0.87
V52	11	10.83	0.51	1.18	3/8"	0.18	0.31	-	0.91	1.18	-	0.87
V53	11	11.48	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	-	0.87

Dimensions in inches

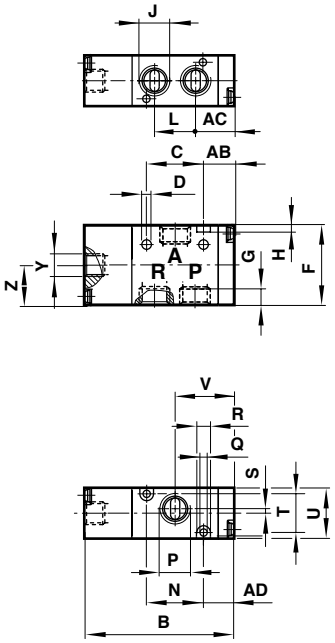
3/2 Single air pilot valve, 1/8" port Air spring return

12



3/2 Single air pilot valve, 1/1/4"to 1/2" ports Mechanical spring return

13

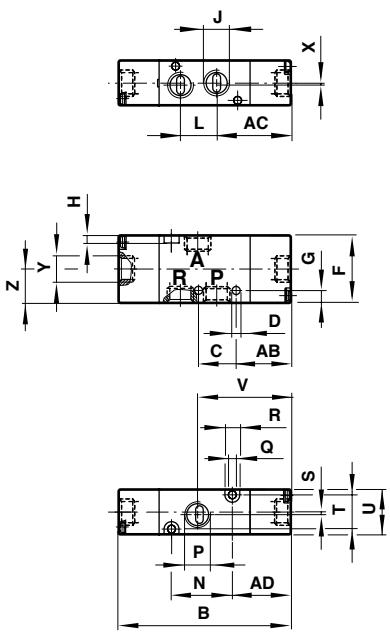


Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
V50	12	0.53	0.85	0.59	2.44	0.59	0.13	1.06	0.20	0.12	1/8"	0.57
V51	13	0.53	0.67	0.53	2.58	0.98	0.17	1.38	0.33	0.12	1/4"	0.71
V52	13	0.51	1.02	0.59	3.43	1.02	0.18	1.83	1.56	0.16	3/8"	1.02
V53	13	0.49	1.06	0.59	0.16	1.14	0.18	1.83	1.56	0.16	1/2"	1.14
Series	**Drawing**	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**X**	**Y**	**Z**
V50	12	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.02	1/8"	0.53
V51	13	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	-	1/8"	0.69
V52	13	1.61	3/8"	0.18	0.31	-	0.91	1.18	1.61	-	1/8"	0.67
V53	13	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	-	1/8"	0.79

Dimensions in inches

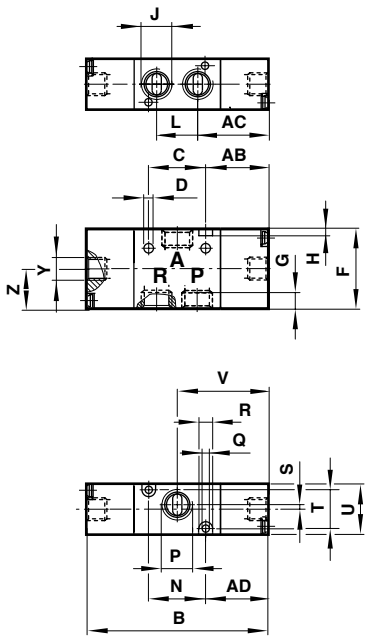
3/2 Double air pilot valve, 1/8" port

14



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

15

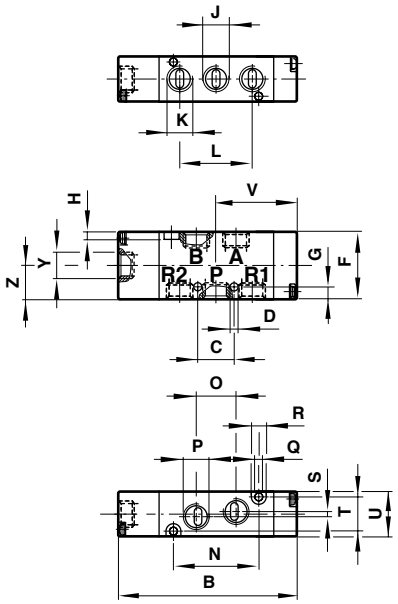


Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
V50	14	0.54	0.86	0.62	2.74	0.60	0.13	1.07	0.20	0.12	1/8"	0.58
V51	15	0.54	0.68	0.54	3.14	0.99	0.17	1.39	0.34	0.12	1/4"	0.72
V52	15	0.52	1.03	0.60	4.10	1.03	0.18	1.85	1.57	0.16	3/8"	1.03
V53	15	0.50	1.07	0.60	4.38	1.15	0.18	1.85	1.57	0.16	1/2"	1.15
Series	**Drawing**	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**X**	**Y**	**Z**
V50	14	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.02	1/8"	0.53
V51	15	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	–	1/8"	0.69
V52	15	1.61	3/8"	0.18	0.31	0.00	0.91	1.18	1.61	–	1/8"	0.67
V53	15	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	–	1/8"	0.67

Dimensions in inches

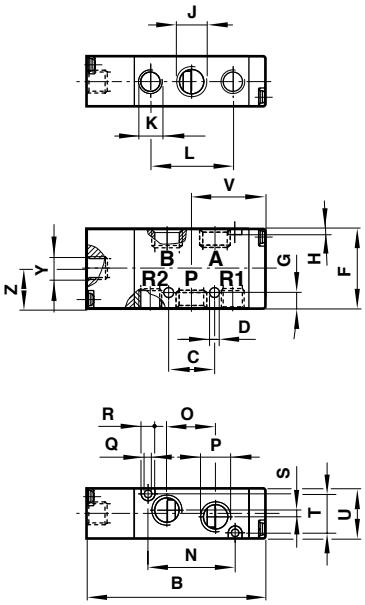
5/2 Single air pilot valve, 1/8" port Air spring return

16



5/2 Single air pilot valve, 1/4"to 1/2" ports Mechanical spring return

17

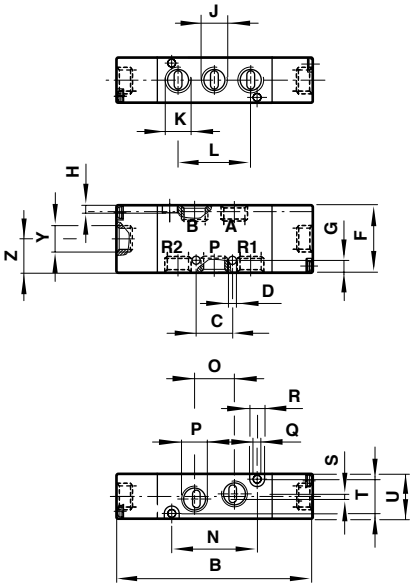


Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	16	2.87	0.57	0.13	1.06	0.20	0.12	1/8"	1/8"	1.14	1.34
V51	17	3.05	0.79	0.17	1.38	0.28	0.12	1/4"	1/8"	1.42	1.50
V52	17	4.17	1.02	0.22	1.83	0.18	0.16	3/8"	3/8"	2.05	0.51
V53	17	4.65	1.14	0.18	1.83	0.28	0.16	1/2"	1/2"	2.28	2.83
Series	**Drawing**	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**Y**	**Z**
V50	16	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	1/8"	0.53
V51	17	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.26	1/8"	0.69
V52	17	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	1/8"	0.67
V53	17	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	1/8"	0.79

Dimensions in inches

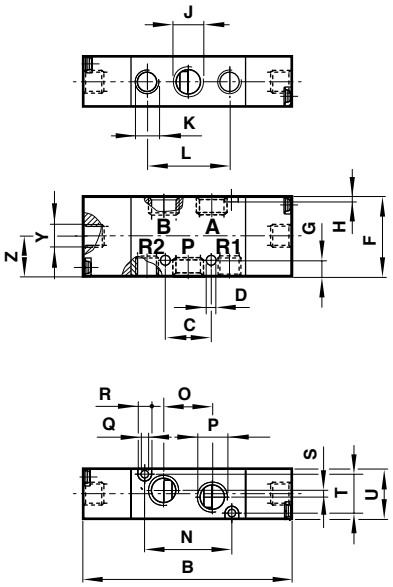
5/2 Double air pilot valve, 1/8" port

18



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

19



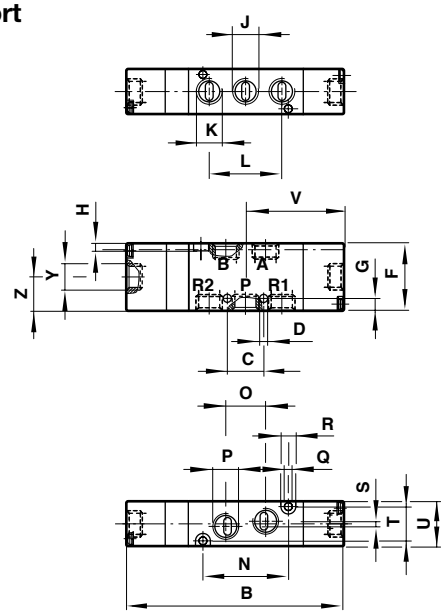
Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	18	3.15	0.57	0.13	1.06	0.20	0.12	1/8"	1/8"	1.14	1.34
V51	19	3.58	0.79	0.17	1.38	0.28	0.12	1/4"	1/8"	1.42	1.50
V52	19	4.80	1.02	0.22	1.83	0.18	0.16	3/8"	3/8"	2.05	0.51
V53	19	5.28	1.14	0.18	1.83	0.28	0.16	1/2"	1/2"	2.28	2.83

Series	Drawing	O	P	Q	R	S	T	U	Y	Z
V50	18	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1/8"	0.53
V51	19	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1/8"	0.69
V52	19	1.18	3/8"	0.18	0.31	-	0.91	1.18	1/8"	0.67
V53	19	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	1/8"	0.79

Dimensions in inches

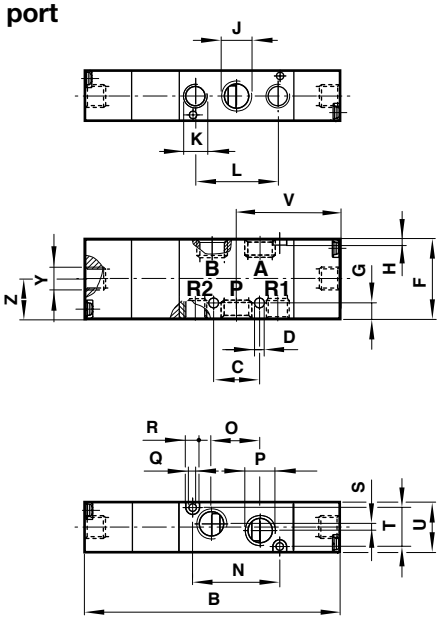
5/3 Double air pilot valve, 1/8" port

20



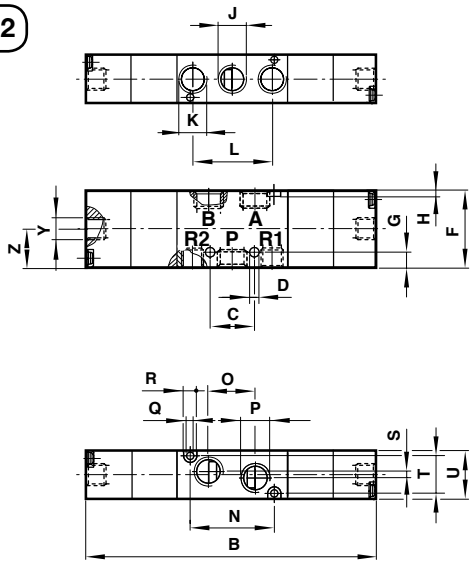
5/3 Double air pilot valve, 1/4" port

21

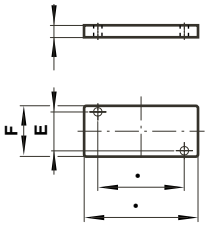


5/3 Double air pilot valve, 3/8" and 1/2" ports

22



Blanking plate

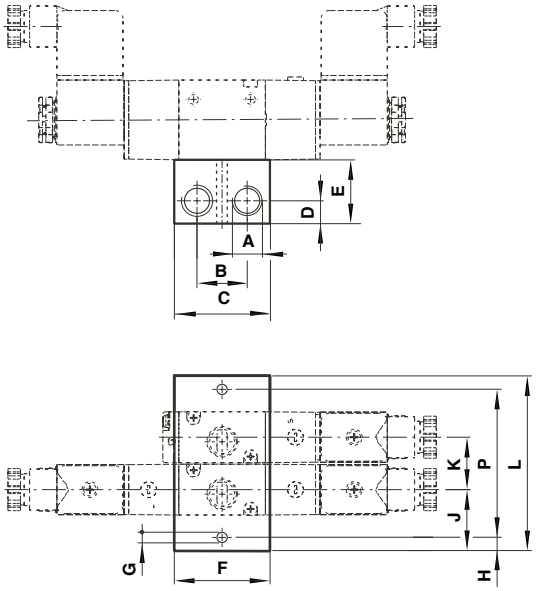


Type	Function	A	B	C	E	F	Weight (lb)
V500351	3/2	0.91	1.38	0.08	0.51	0.71	0.02
V510351	3/2	0.98	1.50	0.08	0.67	0.89	0.03
V520351	3/2	1.61	2.17	0.08	0.91	1.18	0.07
V530351	3/2	1.89	2.44	0.08	091	1.18	0.13
V500551	5/2	1.33	1.69	0.08	0.51	0.71	0.02
V510551	5/2	1.50	2.0	0.08	0.67	0.89	0.04
V520551	5/2	0.51	2.91	0.08	0.91	1.18	0.07
V530551	5/2	2.83	3.39	0.08	0.91	1.20	0.18

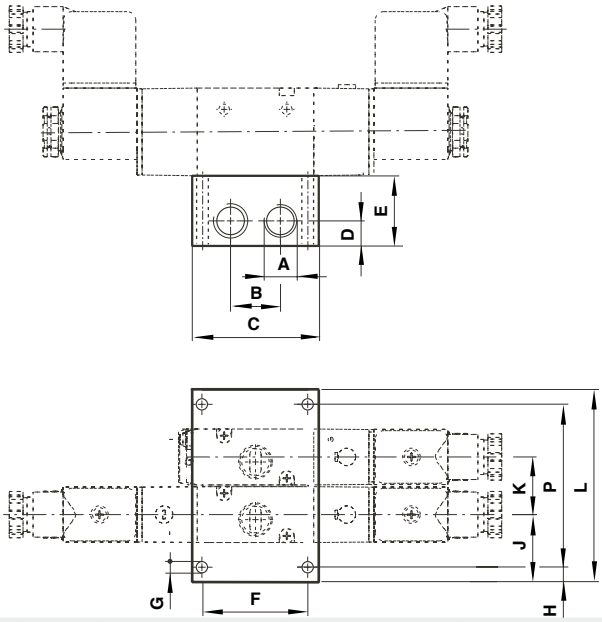
Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	20	3.50	0.57	0.13	1.06	0.20	0.12	1/8“	1/8“	1.14	1.34
V51	21	4.41	0.79	0.17	1.38	0.28	0.12	1/4“	1/8“	1.42	1.50
V52	22	6.91	1.02	0.22	1.83	0.18	0.16	3/8“	3/8“	2.05	0.51
V53	22	7.38	1.14	0.18	1.83	0.28	0.16	1/2“	1/2“	2.28	2.83
Series	**Drawing**	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**Y**	**Z**
V50	20	0.63	1/8“	0.13	0.24	0.08	0.51	0.71	1.30	1/8“	0.53
V51	21	0.83	1/4“	0.13	0.24	0.12	0.67	0.89	1.30	1/8“	0.69
V52	22	1.18	3/8“	0.18	0.31	-	0.91	1.18	1.77	1/8“	0.67
V53	22	1.10	1/2“	0.17	0.31	0.18	0.91	1.18	2.01	1/8“	0.79

Dimensions in inches

Manifold system, 3/2 valves
For V50 and V51



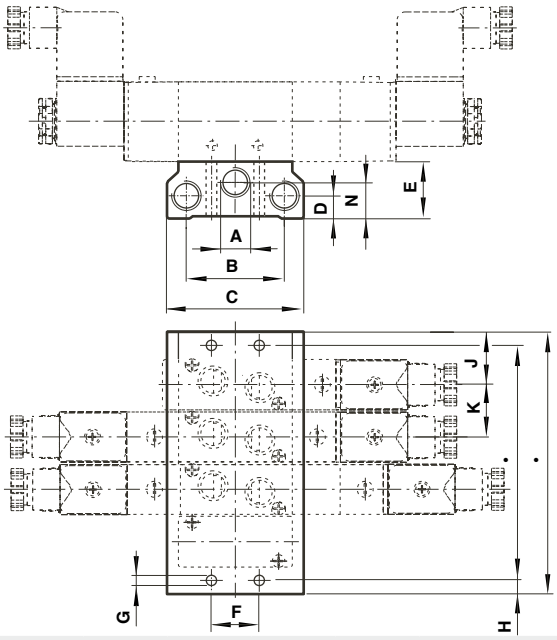
for V52 and V53



Series	A	B	C	D	E	Ø G	H	J	K	L	P	Weight (lb)
V50	1/4"	0.87	1.65	0.39	1.10	0.18	0.20	0.75	0.75	0.75 + (N x 0.75)	0.35 + (N x 0.75)	0.11 + (N x 0.11)
V51	1/4"	0.87	1.65	0.39	1.10	0.18	0.24	1.06	0.91	1.22 + (N x 0.91)	0.75 + (N x 0.91)	0.18 + (N x 0.13)
V52	3/8"	1.02	2.60	0.45	1.06	0.18	0.20	0.98	1.22	0.75 + (N x 1.22)	0.35 + (N x 1.22)	0.13 + (N x 0.24)
V53	1/2"	1.18	2.83	0.59	1.26	0.18	0.20	0.98	1.22	0.75 + (N x 1.22)	0.35 + (N x 1.22)	0.15 + (N x 0.31)

N = Number of stations 2 to 10

Manifold system, 5/2 valves



Dimensions in inches

Series	A	B	C	D	E	F	Ø G	H	J	K	L	P	Weight (lb)
V50	1/4"	1.57	2.28	0.43	0.98	0.79	0.18	0.20	0.75	0.75	0.75 + (N x 0.75)	0.35 + (N x 0.75)	0.89 + (N x 0.89)
V51	1/4"	1.69	2.36	0.39	0.98	0.83	0.18	0.24	0.91	0.91	0.91 + (N x 1.22)	0.43 + (N x 0.91)	0.15 + (N x 0.13)
V52	3/8"	2.40	3.31	0.47	1.06	1.18	0.18	0.20	0.98	1.22	0.75 + (N x 1.22)	0.35 + (N x 1.22)	0.13 + (N x 0.20)
V53	1/2"	2.28	3.78	0.51	1.18	1.18	0.18	0.20	0.98	1.22	0.75 + (N x 1.22)	0.35 + (N x 1.22)	0.18 + (N x 0.33)

N = Number of stations 2 to 10

High flow rate

Extensive manual override options

Manifold system with easy assembly

Low power consumption

Maintenance-free

Technical data

Medium:
Compressed air, filtered to 50 µm, lubricated or non-lubricated.
Operation:
Solenoid pilot or air pilot
Mounting:
Individual or fixed length manifold
Connection:
1/8" NPT, 1/4" NPT and 3/8" NPT
1/8" ISO G, 1/4" ISO G and 3/8" ISO G
Operating pressure:
145 psi (10 bar)

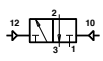
Flow direction:
Internal pilot supply: fixed
External pilot supply: optional
Flow:

Series	3/2, 5/2 Cv (l/min)	2 x 3/2, 5/3 Cv (l/min)
1/8	0.75 (750)	0.50 (500)
1/4	1.3 (1300)	0.95 (950)
3/8	2.6 (2600)	1.9 (1900)

Ambient temperature:
14°F to 122°F (-10°C to 50°C)
Consult our Technical Service for use below 36°F (2°C).

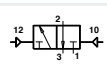
Materials
Housing and base plate: aluminum
Spool: stainless steel,
Piston, spacers and cover: synthetic material
Static and dynamic seals: NBR
Screws: zinc plated
Springs: stainless steel

3/2 Air Pilot Valves

Symbol	Model	Port size (NPT)	Function	Operator/ operator	Flow Cv	Operating pressure (Cv)	Pilot pressure (psi)	Weight (lbs)	Drawing No.
	V60P4D7A-XP0900	1/8	NC	Air/Spring	0.75	26" Hg to 145	36 to 145	0.29	8
	V61R4D7A-XP0900	1/4	NC	Air/Spring	1.30	26" Hg to 145	36 to 145	0.46	8
	V62S4D7A-XP0900	3/8	NC	Air/Spring	2.60	26" Hg to 145	36 to 145	0.95	8
	V60P3D7A-XP0900	1/8	NO	Spring/Air	0.75	26" Hg to 145	36 to 145	0.29	9
	V61R3D7A-XP0900	1/4	NO	Spring/Air	1.30	26" Hg to 145	36 to 145	0.46	9
	V62S3D7A-XP0900	3/8	NO	Spring/Air	2.60	26" Hg to 145	36 to 145	0.95	9
	V60P4DDA-XP0200	1/8	–	Air/Air	0.75	26" Hg to 145	22 to 145	0.29	10
	V61R4DDA-XP0200	1/4	–	Air/Air	1.30	26" Hg to 145	22 to 145	0.46	10
	V62S4DDA-XP0200	3/8	–	Air/Air	2.60	26" Hg to 145	22 to 145	0.95	10

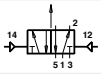
NC = Normally closed, NO = Normally open

2 x 3/2 Air Pilot Valves

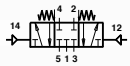
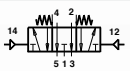
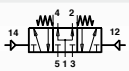
Symbol	Model	Port size (NPT)	Function	Operator/ operator	Flow Cv	Operating pressure (Cv)	Pilot pressure (psi)	Weight (lbs)	Drawing No.
	V60PADDA-XP0200	1/8	NC/NC	Air/Air	0.50	29 to 145	29 to 145	0.4	11
	V61RADDA-XP0200	1/4	NC/NC	Air/Air	0.95	29 to 145	29 to 145	0.67	11
	V62SADDA-XP0200	3/8	NC/NC	Air/Air	1.90	29 to 145	29 to 145	1.32	11
	V60PBDDA-XP0200	1/8	NO/NO	Air/Air	0.50	29 to 145	29 to 145	0.4	11
	V61RBDDA-XP0200	1/4	NO/NO	Air/Air	0.95	29 to 145	29 to 145	0.67	11
	V62SBDDA-XP0200	3/8	NO/NO	Air/Air	1.90	29 to 145	29 to 145	1.32	11
	V60PCDDA-XP0200	1/8	NO/NC	Air/Air	0.50	29 to 145	29 to 145	0.4	11
	V61RCDDA-XP0200	1/4	NO/NC	Air/Air	0.95	29 to 145	29 to 145	0.67	11
	V62SCDDA-XP0200	3/8	NO/NC	Air/Air	1.90	29 to 145	29 to 145	1.32	11

NC = Normally closed, NO = Normally open

5/2 Air Pilot Valves

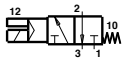
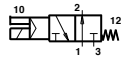
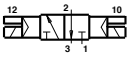
Symbol	Model	Port size (NPT)	Function	Operator/ operator	Flow Cv	Operating pressure (Cv)	Pilot pressure (psi)	Weight (lbs)	Drawing No.
	V60P5D7A-XP0900	1/8	–	Air/Spring	0.75	26" Hg to 145	36 to 145	0.35	12
	V61R5D7A-XP0900	1/4	–	Air/Spring	1.30	26" Hg to 145	36 to 145	0.57	12
	V62S5D7A-XP0900	3/8	–	Air/Spring	2.60	26" Hg to 145	36 to 145	1.23	12
	V60P5DDA-XP0200	1/8	–	Air/Air	0.75	26" Hg to 145	22 to 145	0.37	13
	V61R5DDA-XP0200	1/4	–	Air/Air	1.30	26" Hg to 145	22 to 145	0.6	13
	V62S5DDA-XP0200	3/8	–	Air/Air	2.60	26" Hg to 145	22 to 145	1.28	13

5/3 Air Pilot Valves

Symbol	Model	Port size (NPT)	Function	Operator/ operator	Flow Cv	Operating pressure (Cv)	Pilot pressure (psi)	Weight (lbs)	Drawing No.
	V60P6DDA-XP0200	1/8	APB	Air/Air	0.50	26" Hg to 145	44 to 145	0.44	14
	V61R6DDA-XP0200	1/4	APB	Air/Air	0.95	26" Hg to 145	44 to 145	0.71	14
	V62S6DDA-XP0200	3/8	APB	Air/Air	1.90	26" Hg to 145	44 to 145	1.48	14
	V60P7DDA-XP0200	1/8	COE	Air/Air	0.50	26" Hg to 145	44 to 145	0.44	14
	V61R7DDA-XP0200	1/4	COE	Air/Air	0.95	26" Hg to 145	44 to 145	0.71	14
	V62S7DDA-XP0200	3/8	COE	Air/Air	1.90	26" Hg to 145	44 to 145	1.48	14
	V60P8DDA-XP0200	1/8	COP	Air/Air	0.50	26" Hg to 145	44 to 145	0.44	14
	V61R8DDA-XP0200	1/4	COP	Air/Air	0.95	26" Hg to 145	44 to 145	0.71	14
	V62S8DDA-XP0200	3/8	COP	Air/Air	1.90	26" Hg to 145	44 to 145	1.48	14

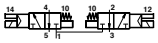
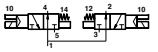
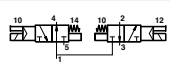
APB = All ports blocked, COE = Center open exhaust, COP = Center open pressure

3/2 Solenoid Pilot Valves

Symbol	Model	Port size	Function	Pilot supply	Operator	Solenoid	Flow Cv	Operating pressure (psi)	Pilot pressure	Weight (lbs)	Drawing No.
	V60P417A-AX***†	1/8	NC	Internal	Sol/spring	Standard	0.75	29 to 145	–	0.49	1
	V60P427A-AX***†	1/8	NC	External	Sol/spring	Standard	0.75	26" Hg to 145	44 to 145	0.49	1
	V61R417A-AX***†	1/4	NC	Internal	Sol/spring	Standard	1.30	29 to 145	–	0.64	1
	V61R427A-AX***†	1/4	NC	External	Sol/spring	Standard	1.30	26" Hg to 145	44 to 145	0.64	1
	V62S417A-AX***†	3/8	NC	Internal	Sol/spring	Standard	2.60	29 to 145	–	1.15	1
	V62S427A-AX***†	3/8	NC	External	Sol/spring	Standard	2.60	26" Hg to 145	44 to 145	1.15	1
	V60P317A-AX***†	1/8	NO	Internal	Sol/spring	Standard	0.75	29 to 145	–	0.5	2
	V60P327A-AX***†	1/8	NO	External	Sol/spring	Standard	0.75	26" Hg to 145	44 to 145	0.5	2
	V61R317A-AX***†	1/4	NO	Internal	Sol/spring	Standard	1.30	29 to 145	–	0.64	2
	V61R327A-AX***†	1/4	NO	External	Sol/spring	Standard	1.30	26" Hg to 145	44 to 145	0.64	2
	V62S317A-AX***†	3/8	NO	Internal	Sol/spring	Standard	2.60	29 to 145	–	1.15	2
	V62S327A-AX***†	3/8	NO	External	Sol/spring	Standard	2.60	26" Hg to 145	44 to 145	1.15	2
	V60P411A-AX***†	1/8	–	Internal	Sol/sol	Standard	0.75	22 to 145	–	0.66	3
	V60P422A-AX***†	1/8	–	External	Sol/sol	Standard	0.75	26" Hg to 145	44 to 145	0.66	3
	V61R411A-AX***†	1/4	–	Internal	Sol/sol	Standard	1.30	22 to 145	–	0.84	3
	V61R422A-AX***†	1/4	–	External	Sol/sol	Standard	1.30	26" Hg to 145	44 to 145	0.84	3
	V62S411A-AX***†	3/8	–	Internal	Sol/sol	Standard	2.60	22 to 145	–	1.34	3
	V62S422A-AX***†	3/8	–	External	Sol/sol	Standard	2.60	26" Hg to 145	44 to 145	1.34	3

NC = Normally closed, NO = Normally open
For manual override options, substitute 'X' as follows: 2 = locking, 3 = non-locking
*** Insert coil code.
† Insert Connector code.

2 x 3/2 Solenoid Pilot Valves

Symbol	Model	Port size	Function	Pilot supply	Operator	Flow Cv	Operating pressure (psi)	Pilot pressure	Weight (lbs)	Drawing No.
	V60PA11A-AX***†	1/8	NC/NC	Internal	Sol/sol	0.5	29 to 145	–	0.75	4
	V61RA11A-AX***†	1/4	NC/NC	Internal	Sol/sol	0.95	29 to 145	–	0.95	4
	V62SA11A-AX***†	3/8	NC/NC	Internal	Sol/sol	1.9	29 to 145	–	0.73	4
	V60PB11A-AX***†	1/8	NO/NO	Internal	Sol/sol	0.5	29 to 145	–	0.75	4
	V61RB11A-AX***†	1/4	NO/NO	Internal	Sol/sol	0.95	29 to 145	–	0.95	4
	V62SB11A-AX***†	3/8	NO/NO	Internal	Sol/sol	1.9	29 to 145	–	1.61	4
	V60PC11A-AX***†	1/8	NO/NC	Internal	Sol/sol	0.5	29 to 145	–	0.75	4
	V61RC11A-AX***†	1/4	NO/NC	Internal	Sol/sol	0.95	29 to 145	–	0.95	4
	V62SC11A-AX***†	3/8	NO/NC	Internal	Sol/sol	1.9	29 to 145	–	1.61	4

NC = Normally closed, NO = Normally open
For manual override options, substitute 'X' as follows: 2 = locking, 3 = non-locking
*** Insert coil code.
† Insert Connector code.

Coil & voltage codes

***Standard (22 mm coil industrial standard)

Voltage	Coil code	Power inrush/hold	Model
12 VDC	12J	2 W	54469-01
24 VDC	13J	2 W	54469-02
24 V 50/60 Hz	14J	4/2.5 VA	54469-04
110/120 V 50/60 Hz	18J	4/2.5 VA	54469-03
220/240 V 50/60 Hz	19J	6/5 VA	54469-08

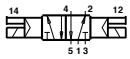
Electrical details

Voltage tolerance:	±10%
Rating:	100% E.D.
Protection class:	IP 65 with sealed plugs (ISO 6952)

†Connectors

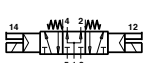
Connector Code	Description	Model
A	No connector	
B	Cable grip 0-240Vac/Vdc	54934-01
C	6 ft molded cable, 0-240Vac/Vdc	54934-21
H	Cable grip w/indicator light 24 VDC	54934-08
J	Cable grip w/indicator light 120Vac	54934-02
Z	1/2" Conduit 0-240Vac/Vdc	54934-05
5	6 ft molded cable w/indicator light, surge suppression, 24Vac/Vdc	54934-30
6	6 ft molded cable w/indicator light, 120Vac	54934-35

5/2 Solenoid Pilot Valves

Symbol	Model	Port size	Function	Pilot supply	Operator	Flow Cv	Operating pressure (psi)	Pilot pressure	Weight (lbs)	Drawing No.
	V60P517A-AX***†	1/8	_	Internal	Sol/spring	0.75	29 to 145	–	0.53	5
	V60P527A-AX***†	1/8	_	External	Sol/spring	0.75	26" Hg to 145	44 to 145	0.53	5
	V61R517A-AX***†	1/4	_	Internal	Sol/spring	1.3	29 to 145	–	0.73	5
	V61R527A-AX***†	1/4	_	External	Sol/spring	1.3	26" Hg to 145	44 to 145	0.73	5
	V62S517A-AX***†	3/8	_	Internal	Sol/spring	2.6	29 to 145	–	1.36	5
	V62S527A-AX***†	3/8	_	External	Sol/spring	2.6	26" Hg to 145	44 to 145	1.36	5
	V60P511A-AX***†	1/8	_	Internal	Sol/sol	0.75	29 to 145	–	0.73	6
	V60P522A-AX***†	1/8	_	External	Sol/sol	0.75	26" Hg to 145	44 to 145	0.51	6
	V61R511A-AX***†	1/4	_	Internal	Sol/sol	1.3	29 to 145	–	0.93	6
	V61R522A-AX***†	1/4	_	External	Sol/sol	1.3	26" Hg to 145	44 to 145	0.93	6
	V62S511A-AX***†	3/8	_	Internal	Sol/sol	2.6	29 to 145	–	1.59	6
	V62S522A-AX***†	3/8	_	External	Sol/sol	2.6	26" Hg to 145	44 to 145	1.59	6

For manual override options, substitute 'X' as follows: 2 = locking, 3 = non-locking
*** Insert coil code.
† Insert Connector code.

5/3 Solenoid Pilot Valves

Symbol	Model	Port size	Function	Pilot supply	Operator	Flow Cv	Operating pressure (psi)	Pilot pressure	Weight (lbs)	Drawing No.
	V60P611A-AX***†	1/8	APB	Internal	Sol/sol	0.5	44 to 145	–	0.77	7
	V60P622A-AX***†	1/8	APB	External	Sol/sol	0.5	26" Hg to 145	44 to 145	0.77	7
	V61R611A-AX***†	1/4	APB	Internal	Sol/sol	0.95	44 to 145	–	1.04	7
	V61R622A-AX***†	1/4	APB	External	Sol/sol	0.95	26" Hg to 145	44 to 145	1.04	7
	V62S611A-AX***†	3/8	APB	Internal	Sol/sol	1.9	44 to 145	–	1.79	7
	V62S622A-AX***†	3/8	APB	External	Sol/sol	1.9	26" Hg to 145	44 to 145	1.79	7
	V60P711A-AX***†	1/8	COE	Internal	Sol/sol	0.5	44 to 145	–	0.77	7
	V60P722A-AX***†	1/8	COE	External	Sol/sol	0.5	26" Hg to 145	44 to 145	0.77	7
	V61R711A-AX***†	1/4	COE	Internal	Sol/sol	0.95	44 to 145	–	1.04	7
	V61R722A-AX***†	1/4	COE	External	Sol/sol	0.95	26" Hg to 145	44 to 145	1.04	7
	V62S711A-AX***†	3/8	COE	Internal	Sol/sol	1.9	44 to 145	–	1.79	7
	V62S722A-AX***†	3/8	COE	External	Sol/sol	1.9	26" Hg to 145	44 to 145	1.79	7
	V60P811A-AX***†	1/8	COP	Internal	Sol/sol	0.5	44 to 145	–	0.77	7
	V60P822A-AX***†	1/8	COP	External	Sol/sol	0.5	26" Hg to 145	44 to 145	0.77	7
	V61R811A-AX***†	1/4	COP	Internal	Sol/sol	0.95	44 to 145	–	1.04	7
	V61R822A-AX***†	1/4	COP	External	Sol/sol	0.95	26" Hg to 145	44 to 145	1.04	7
	V62S811A-AX***†	3/8	COP	Internal	Sol/sol	1.9	44 to 145	–	1.79	7
	V62S822A-AX***†	3/8	COP	External	Sol/sol	1.9	26" Hg to 145	44 to 145	1.79	7

APB = All ports blocked, COE = Center open exhaust, COP = Center open pressure
For manual override options, substitute 'X' as follows: 2 = locking, 3 = non-locking
*** Insert coil code.
† Insert Connector code.

Coil & voltage codes

***Standard (22 mm coil industrial standard)

Voltage	Coil code	Power inrush/hold	Model
12 VDC	12J	2 W	54469-01
24 VDC	13J	2 W	54469-02
24 V 50/60 Hz	14J	4/2.5 VA	54469-04
110/120 V 50/60 Hz	18J	4/2.5 VA	54469-03
220/240 V 50/60 Hz	19J	6/5 VA	54469-08

Electrical details

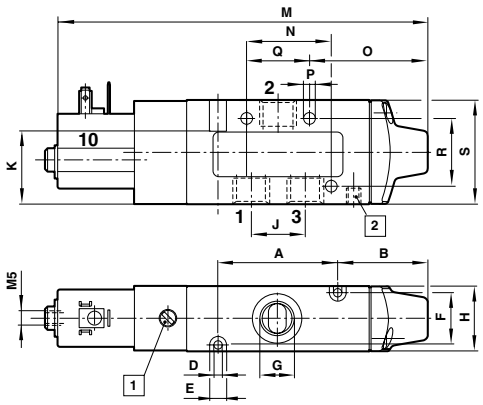
Voltage tolerance:	±10%
Rating:	100% E.D.
Protection class:	IP 65 with sealed plugs (ISO 6952)

†Connectors

Connector Code	Description	Model
A	No connector	
B	Cable grip 0-240Vac/Vdc	54934-01
C	6 ft molded cable, 0-240Vac/Vdc	54934-21
H	Cable grip w/indicator light 24 VDC	54934-08
J	Cable grip w/indicator light 120Vac	54934-02
Z	1/2" Conduit 0-240Vac/Vdc	54934-05
5	6 ft molded cable w/indicator light, surge suppression, 24Vac/Vdc	54934-30
6	6 ft molded cable w/indicator light, 120Vac	54934-35

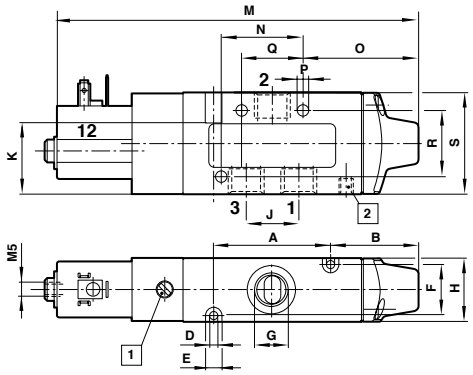
3/2 NC Solenoid Pilot Spring Return Valve

1



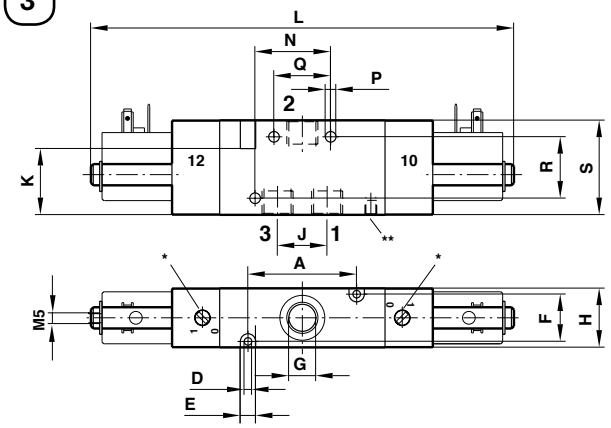
3/2 NO Solenoid Pilot Spring Return Valve

2



3/2 Double Solenoid Pilot Valve

3

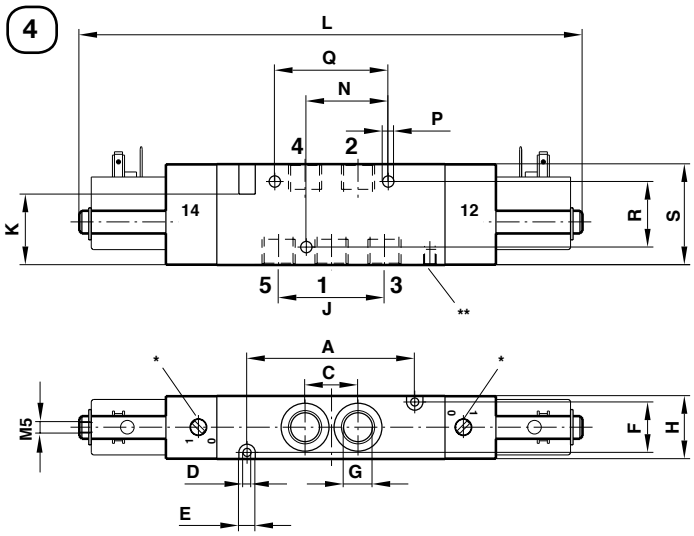


* Manual override
** External pilot supply 10-32
*** Collected pilot exhaust 10-32
**** Solenoid 1
***** Solenoid 2

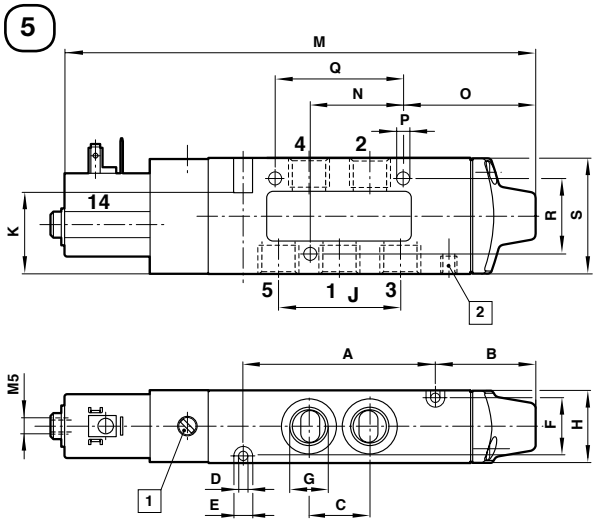
Drawing No	Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
1	V60	1.38	0.67	–	0.13	0.26	0.67	1/8	0.87	0.64	1.10	–	4.49	0.98	0.98	0.18	0.71	1.02	1.38	–	–
1	V61	1.81	0.79	–	0.13	0.26	0.79	1/4	0.98	0.83	1.10	–	5.22	1.26	1.22	0.18	0.94	1.02	1.57	–	–
1	V62	2.13	0.83	–	0.18	0.31	1.10	3/8	1.34	0.96	1.73	–	5.71	0.47	1.42	0.18	1.02	1.42	2.17	–	–
2	V60	1.38	0.67	–	0.13	0.26	0.67	1/8	0.87	0.64	1.10	–	4.49	0.98	0.98	0.18	0.71	1.02	1.38	–	–
2	V61	1.81	0.79	–	0.13	0.26	0.79	1/4	0.98	0.83	1.10	–	5.22	1.26	1.22	0.18	0.94	1.02	1.57	–	–
2	V62	2.13	0.83	–	0.18	0.31	1.10	3/8	1.34	0.96	1.73	–	5.71	0.47	1.34	0.18	1.02	1.42	2.17	–	–
3	V60	1.38	–	–	0.13	0.26	0.67	1/8	0.87	0.64	1.10	6.30	–	0.98	–	0.18	0.71	1.02	1.38	–	–
3	V61	1.81	–	–	0.13	0.26	0.79	1/8	0.98	0.83	1.10	7.05	–	1.26	–	0.18	0.94	1.02	1.57	–	–
3	V62	2.13	–	–	0.18	0.31	1.10	3/8	1.34	0.96	1.73	7.64	–	0.47	–	0.18	1.02	1.42	2.17	–	–

Dimensions in inches (mm)

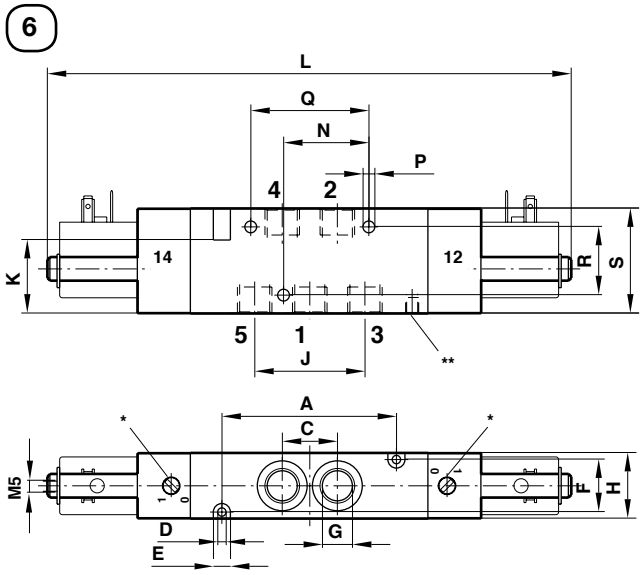
2x3/2 Solenoid Pilot Spring Return Valve



5/2 Solenoid Pilot Spring Return Valve



5/2 Double Solenoid Pilot Valve



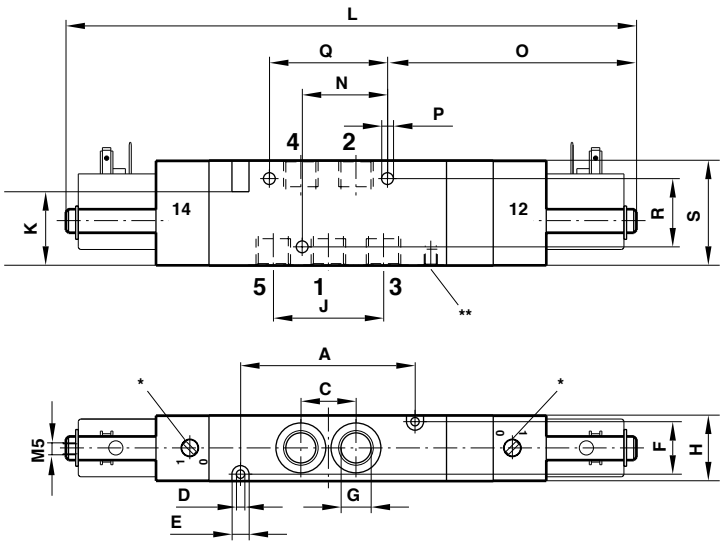
* Manual override
** External pilot supply 10-32
*** Collected pilot exhaust 10-32
**** Solenoid 1
***** Solenoid 2

Drawing No	Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
4	V60	1.97	–	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	6.89	–	0.98	–	0.18	1.32	1.02	1.38	–	–
4	V61	2.60	–	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	7.83	–	1.26	–	0.18	1.73	1.02	1.57	–	–
4	V62	3.07	–	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	8.58	–	0.47	–	0.18	1.02	1.42	2.17	–	–
5	V60	1.97	0.67	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	–	5.08	0.98	0.98	0.18	1.32	1.02	1.38	–	–
5	V61	2.60	0.79	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	–	6.00	1.26	1.22	0.18	1.73	1.02	1.57	–	–
5	V62	3.07	0.83	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	–	6.69	0.47	2.36	0.18	1.02	1.42	2.17	–	–
6	V60	1.97	–	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	6.89	–	0.98	–	0.18	1.32	1.02	1.38	–	–
6	V61	2.60	–	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	7.83	–	1.26	–	0.18	1.73	1.02	1.57	–	–
6	V62	3.07	–	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	8.58	–	0.47	–	0.18	1.02	1.42	2.17	–	–

Dimensions in inches (mm)

5/3 Double Solenoid Pilot Valve

7



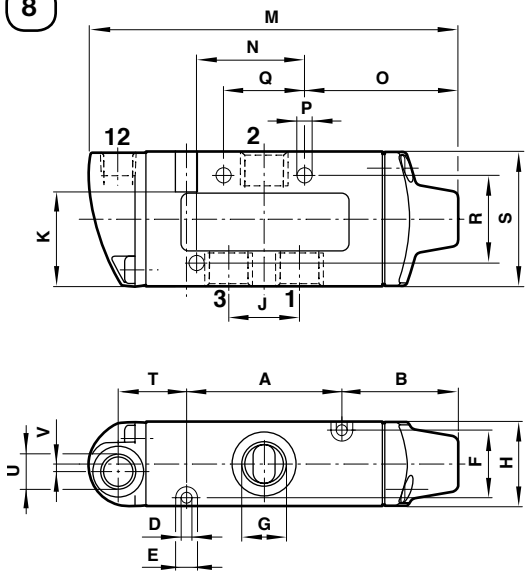
* Manual override
** External pilot supply 10-32
*** Collected pilot exhaust 10-32
**** Solenoid 1
***** Solenoid 2

Drawing No.	Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
7	V60	1.97	–	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	7.44	–	0.98	3.33	0.18	1.32	1.02	1.38	–	–
7	V61	2.60	–	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	8.54	–	1.26	–	0.18	1.73	1.02	1.57	–	–
7	V62	3.07	–	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	9.49	–	0.47	5.20	0.18	1.02	1.42	2.17	–	–

Dimensions in inches (mm)

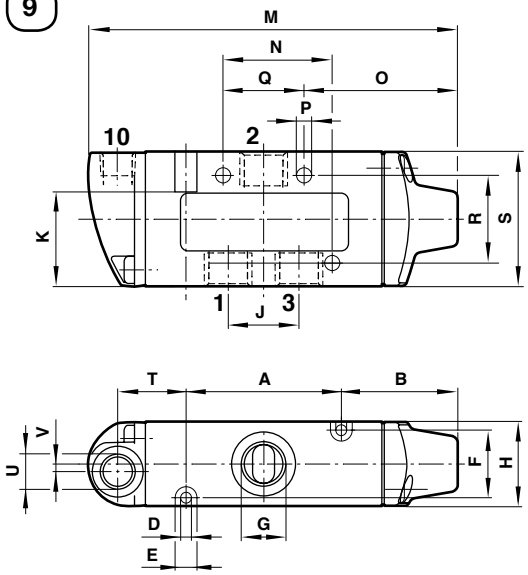
3/2 NC Air Pilot Spring Return Valve

8



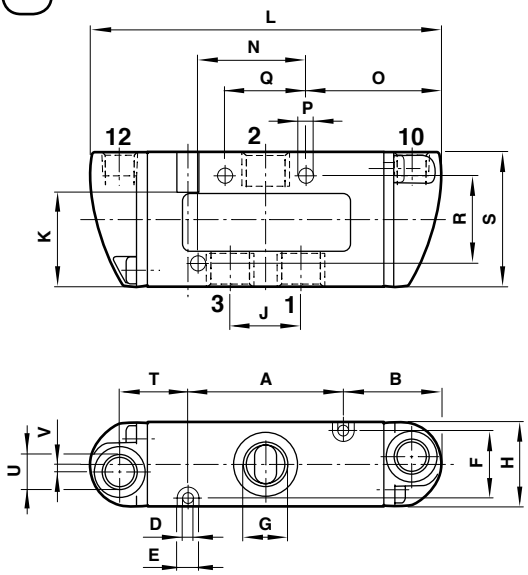
3/2 NO Air Pilot Spring Return Valve

9



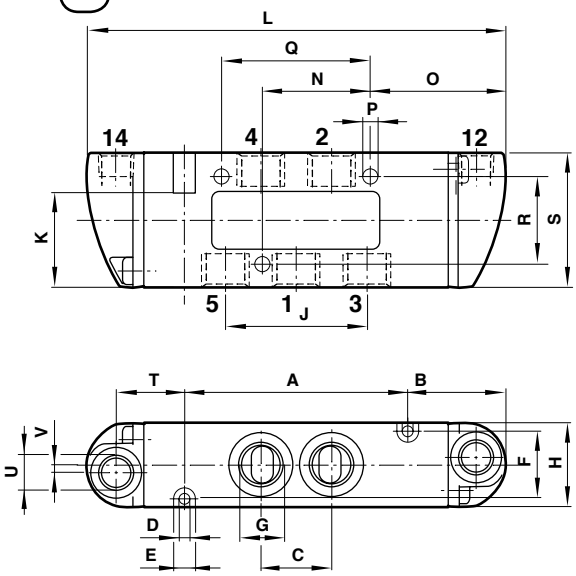
3/2 Double Air Pilot Valve

10



2x3/2 Air Pilot Spring Return Valve

11

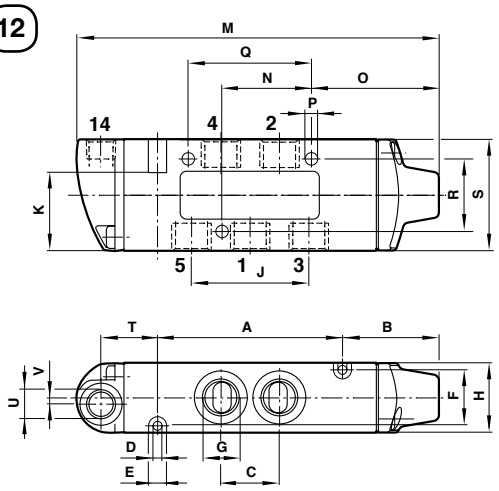


Drawing No.	Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
8	V60	1.38	1.08	–	0.13	0.26	0.67	1/8	0.87	0.64	1.10	–	3.54	0.98	1.41	0.18	0.71	1.02	1.38	0.73	1/8" NPT
8	V61	1.81	1.36	–	0.13	0.26	0.79	1/4	0.98	0.83	1.10	–	4.33	1.26	1.79	0.18	0.94	1.02	1.57	0.80	1/8" NPT
8	V62	2.13	1.69	–	0.18	0.31	1.10	3/8	1.34	0.96	1.73	–	4.88	0.47	2.28	0.18	1.02	1.42	2.17	0.83	1/8" NPT
9	V60	1.38	1.08	–	0.13	0.26	0.67	1/8	0.87	0.64	1.10	–	3.54	0.98	1.41	0.18	0.71	1.02	1.38	0.73	1/8" NPT
9	V61	1.81	1.36	–	0.13	0.26	0.79	1/4	0.98	0.83	1.10	–	4.33	1.26	1.79	0.18	0.94	1.02	1.57	0.80	1/8" NPT
9	V62	2.13	1.69	–	0.18	0.31	1.10	3/8	1.34	0.96	1.73	–	4.88	0.47	2.20	0.18	1.02	1.42	2.17	0.83	1/8" NPT
10	V60	1.38	1.08	–	0.13	0.26	0.67	1/8	0.87	0.64	1.10	3.50	–	0.98	1.40	0.18	0.71	1.02	1.38	0.73	1/8" NPT
10	V61	1.81	1.14	–	0.13	0.26	0.79	1/4	0.98	0.83	1.10	4.09	–	1.26	1.57	0.18	0.94	1.02	1.57	0.80	1/8" NPT
10	V62	2.13	1.06	–	0.18	0.31	1.10	3/8	1.34	0.96	1.73	4.25	–	0.47	1.65	0.18	1.02	1.42	2.17	0.83	1/8" NPT
11	V60	1.97	1.07	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	4.11	–	0.98	1.40	0.18	1.32	1.02	1.38	0.74	1/8" NPT
11	V61	2.60	1.14	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	4.88	–	1.26	1.57	0.18	1.73	1.02	1.57	0.80	1/8" NPT
11	V62	3.07	1.06	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	5.20	–	0.47	2.60	0.18	1.02	1.42	2.17	0.83	1/8" NPT

Dimensions in inches

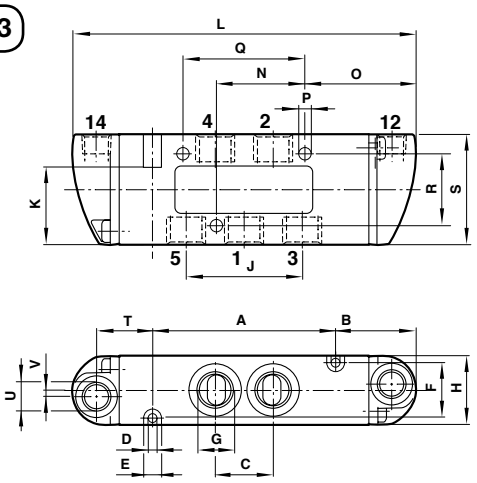
5/2 Air Pilot Spring Return Valve

12



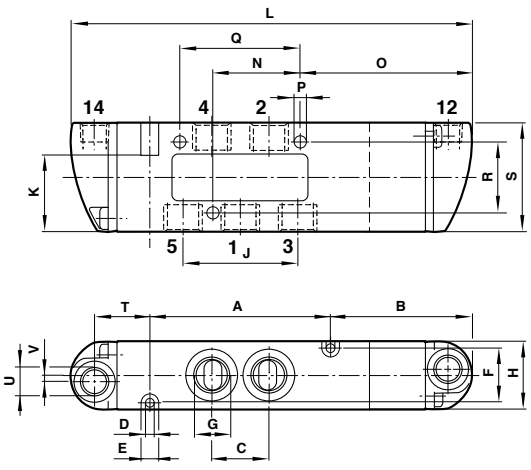
5/2 Double Air Pilot Valve

13



5/3 Double Air Pilot Valve

14



Drawing No.	Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
12	V60	1.97	1.08	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	–	4.13	0.98	1.41	0.18	1.73	1.02	1.38	0.74	1/8" NPT
12	V61	2.60	1.36	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	–	5.12	1.26	1.79	0.18	1.02	1.02	1.57	0.80	1/8" NPT
12	V62	3.07	1.69	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	–	5.83	0.47	3.23	0.18	1.32	1.42	2.17	0.83	1/8" NPT
13	V60	1.97	1.07	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	4.11	–	0.98	1.40	0.18	1.73	1.02	1.38	0.74	1/8" NPT
13	V61	2.60	1.14	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	4.88	–	1.26	1.57	0.18	1.02	1.02	1.57	0.80	1/8" NPT
13	V62	3.07	1.06	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	5.20	–	0.47	2.60	0.18	1.32	1.42	2.17	0.83	1/8" NPT
14	V60	1.97	1.63	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	4.67	–	0.98	1.95	0.18	1.73	1.02	1.38	0.74	1/8" NPT
14	V61	2.60	2.05	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	5.79	–	1.26	2.48	0.18	1.02	1.02	1.57	0.80	1/8" NPT
14	V62	3.07	1.95	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	6.08	–	0.47	3.48	0.18	1.32	1.42	2.17	0.83	1/8" NPT

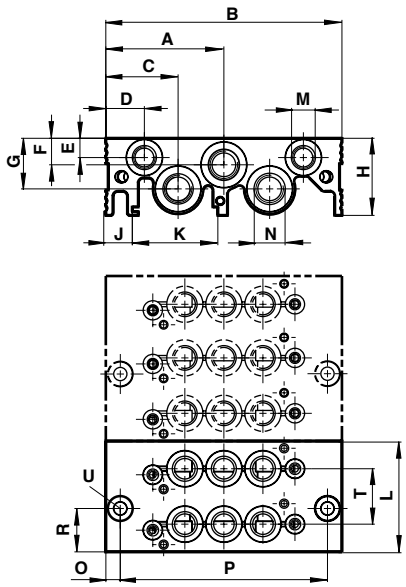
Dimensions in inches (mm)

Manifold plate

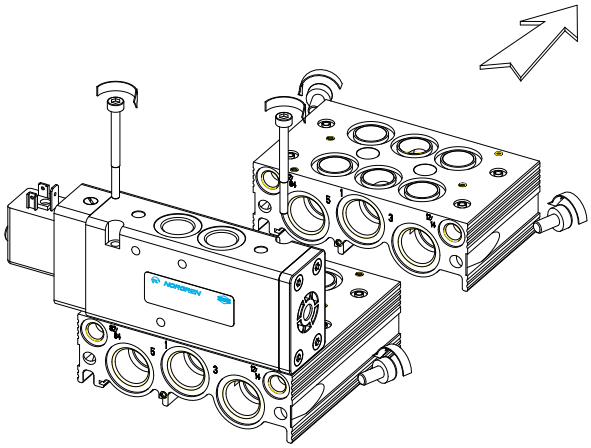
Valve ports	V60	lbs (kg)	V61	lbs (kg)	V62 lbs (kg)	lbs (kg)
2	2221032	0.51 (0.23)	2221132	0.62 (0.28)	2221232	1.10 (0.50)
3	2221033	0.62 (0.28)	2221133	0.99 (0.45)	2221233	1.87 (0.85)

Note: Fixed length manifolds can only be used with 5-ported V60-V62 valves

Drawing dimensions
Manifold plate 2 stations + 3 stations

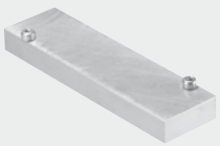


Extension possibilities with manifold plates



Type		A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U
V60	2 stations	1.93	3.86	1.18	0.63	0.31	0.43	0.83	1.26	0.43	1.40	1.81	1/8	1/4	0.24	3.39	1.10	–	0.91	10-32
V60	3 stations	1.93	3.86	1.18	0.63	0.31	0.43	0.83	1.26	0.43	1.40	2.72	1/8	1/4	0.24	3.39	1.10	–	0.91	10-32
V61	2 stations	2.05	4.09	1.02	0.35	0.31	0.51	0.83	1.30	0.39	1.40	2.05	1/8	3/8	1.57	0.94	1.02	–	1.02	10-32
V61	3 stations	2.05	4.09	1.02	0.35	0.31	0.51	0.79	1.30	0.39	1.40	3.07	1/8	3/8	1.57	0.94	2.05	–	1.02	10-32
V62	2 stations	2.36	4.72	1.14	0.35	0.31	0.59	0.87	1.50	0.51	1.40	2.76	1/8	1/2	1.73	1.26	1.38	–	1.38	M6
V62	3 stations	2.36	4.72	1.14	0.35	0.31	0.59	0.87	1.50	0.51	1.40	4.13	1/8	1/2	1.73	1.26	2.76	–	1.38	M6

Blanking plate



0100561	(V60)
0100563	(V61)
0100565	(V62)

Pressure shut-off part for 4 station up to 20 station manifolds

0100567	(V60)
0100569	(V61)
0100571	(V62)

DIN Rail fixing kit

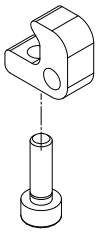
0101796	(V60-V62)

Dimensions in inches (mm)

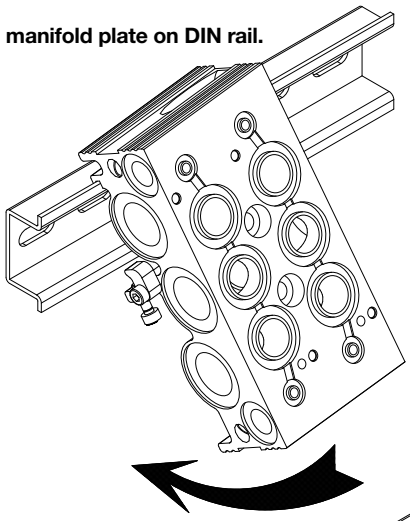
Mounting instructions

DIN Rail

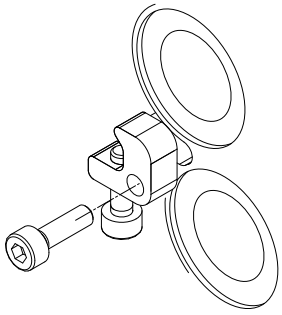
1. Mount screw in rod

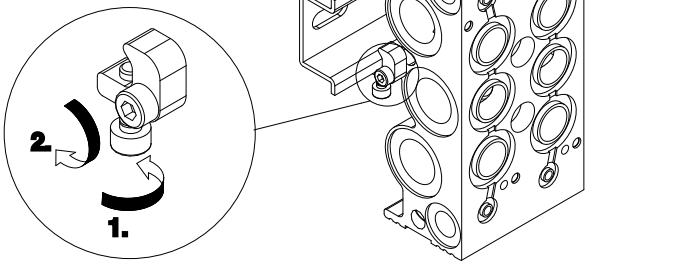


3. Position manifold plate on DIN rail.



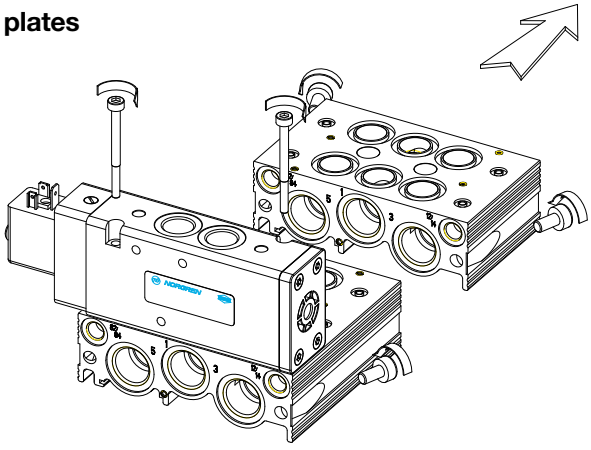
2. Fix rod on manifold plate with screw.





4. Tighten screws in steps as shown on picture

Extension possibilities with manifold plates



Dimensions in inches (mm)

Product De-configuration Tree

V60A517A — A313JB