5 Series

51 ..... 56 Series

3/2, 5/2 and 5/3 directional valves
Port size: G 1/4”



Crossover-free switching, guaranteed switch-over function
Compact design
High flow rate of 1000 l/min
Manual override with detent
High cycle life time up to one million cycles
Simple design of softseal spool system
In-line and easy manifold mounting system
Easily interchangeable solenoid

Ordering information
See page 2

Technical data

Medium:
Compressed air, to 40 µm, lubricated or non-lubricated

Operation:
Softseal spool valve, solenoid indirectly controlled

Mounting:
In-line or sub-base
Ports P, B and A G 1/4
Ports R (R1) and S (R2) Exhaust Port G 1/8

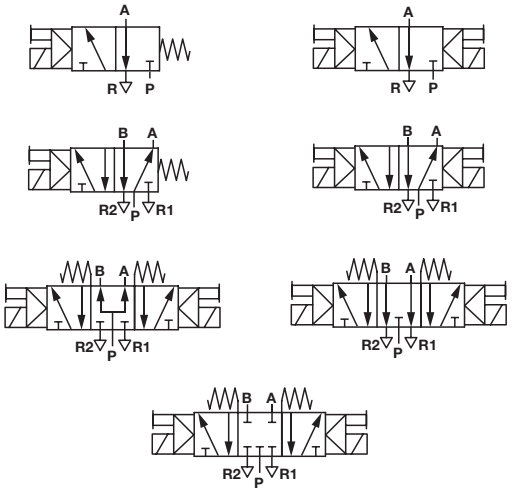
Operating pressure:
1.5 ..... 8 Bar

Flow characteristics:
750 to 1000 l/min

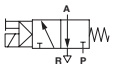
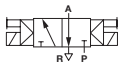
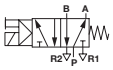
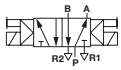
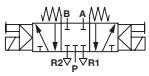
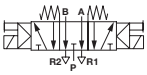
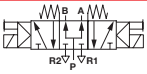
Ambient & medium temperature:
-5°C to +60°C

Materials

Body/sub-base: aluminium alloy
Softseal spool: NBR/aluminium alloy
Mounting sheets/screws: steel
Springs: stainless steel



Parameters for solenoid

Symbol	Model	Function	Actuation	Pilot supply	Operating pressure (bar)	Flow (l/min)	Manual override	Weight (kg)	Drawing No.
	**5102 000**	3/2	Solenoid/spring	Internal	1.5 ... 8	1000	Push & detent	0,20	①
	**5102 100**	3/2	Solenoid/solenoid	Internal	1.5 ... 8	1000	Push & detent	0,30	②
	**5202 000**	5/2	Solenoid/spring	Internal	1.5 ... 8	1000	Push & detent	0,20	③
	**5202 100**	5/2	Solenoid/solenoid	Internal	1.5 ... 8	1000	Push & detent	0,30	④
	**5502 200**	5/3 APB	Solenoid/solenoid	Internal	2 ... 8	750	Push & detent	0,34	⑤
	**5502 300**	5/3 COE	Solenoid/solenoid	Internal	2 ... 8	750	Push & detent	0,34	⑤
	**5502 400**	5/3 COP	Solenoid/solenoid	Internal	2 ... 8	750	Push & detent	0,34	⑤

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

Coil codes

Coil code	Voltage
012 00	12 V d.c.
024 00	24 V d.c.
024 50	24 V, 50/60 Hz
048 50	48 V, 50/60 Hz
110 50	110/120 V, 50/60 Hz
230 50	220/240 V, 50/60 Hz

Electrical details for solenoid armature

Voltage tolerances	+/- 10%
Rating	100 % Continuous duty
Inlet orifice	0,8 mm
Materials	PPS (body), NBR (seal)
Insulation class	F class
Connector type	22 mm industrial standard
Protection class	IP65

Numbering Chart

5X02X00.XXXXX

5 Series (G 1/4 version)	

Function (Solenoid actuated)	Substitute
3/2 Normally closed	**1**
5/2	**2**
5/3	**5**

G1/4	**02**

Voltage	Coil code
12 V d.c 3 W	**012 00**
24 V d.c 3 W	**024 00**
24 V a.c (50/60 Hz) 5/3.5 VA	**024 25**
48 V a.c (50/60 Hz) 5/3.5 VA	**048 50**
110/120 V a.c (50/60 Hz) 5/3.5 VA	**110 50**
220/240 V a.c (50/60 Hz) 5/3.5 VA	**230 50**

Actuation	Substitute
Solenoid/Spring	**0**
Solenoid/Solenoid	**1**
APB	**2**
COE	**3**
COP	**4**

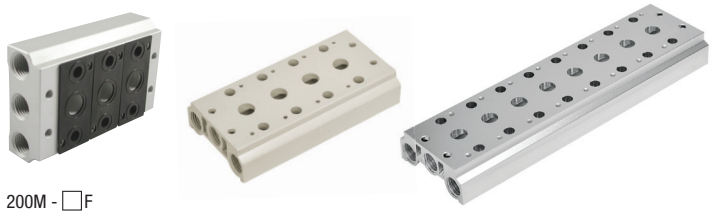
Ordering example

To order a 5/2 solenoid valve, spring return, 230 VAC, 50Hz
Port: G 1/4
Type: **5202 000. 23050**

Connector
Type: **200N/AC**

Manifold sub-base

Manifold for 5 port valves



200M - ☐F

☐ Number of station 02 ... 09 for 2 ... 9 stations
Number of station 10 for 10 stations

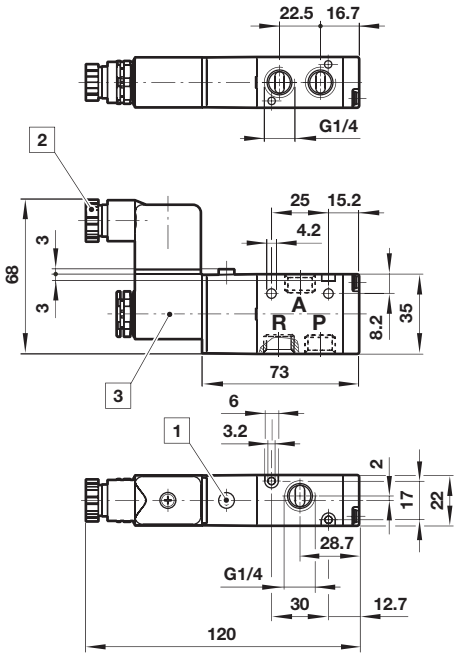
Accessories

Connectors, 22 mm industrial standard	Silencers, G1/8	Silencers, G1/4	Blanking plate	Blanking plug
				
200N/DC 15 ... 50 V d.c. LED light (Green)	ASS-100	ASS-200	200M-B 5/2 (for manifold)	MVRC 320-1/4"
200N/AC 70 ... 250 V a.c. LED light (Red)				

Valve dimensions

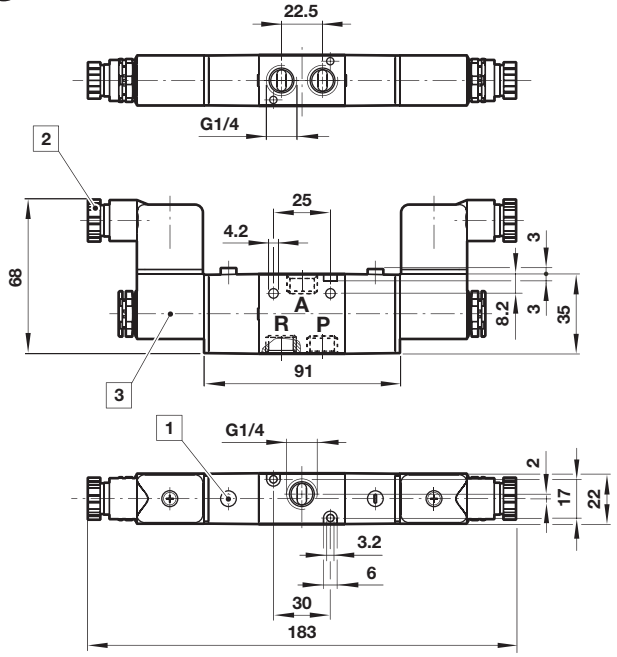
3/2 Single solenoid valve (monostable) Mechanical spring return

①



3/2 Double solenoid valve (bistable)

②

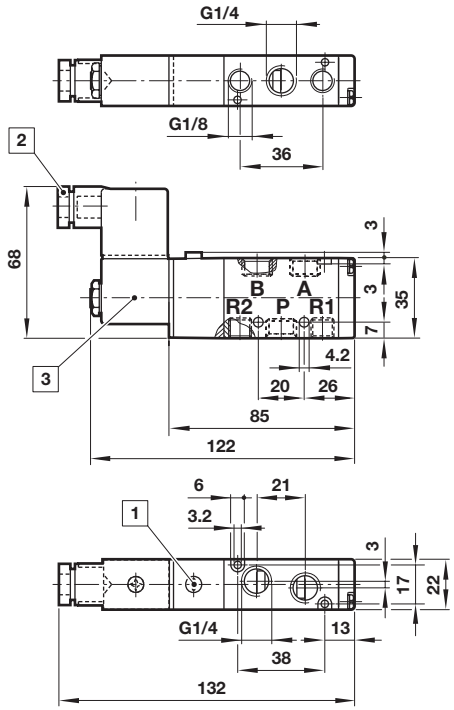


1 **Manual override (Push and Detent)**
2 **Gland size Pg 11**
3 **Solenoid rotates 4 x 90°**

Valve dimensions

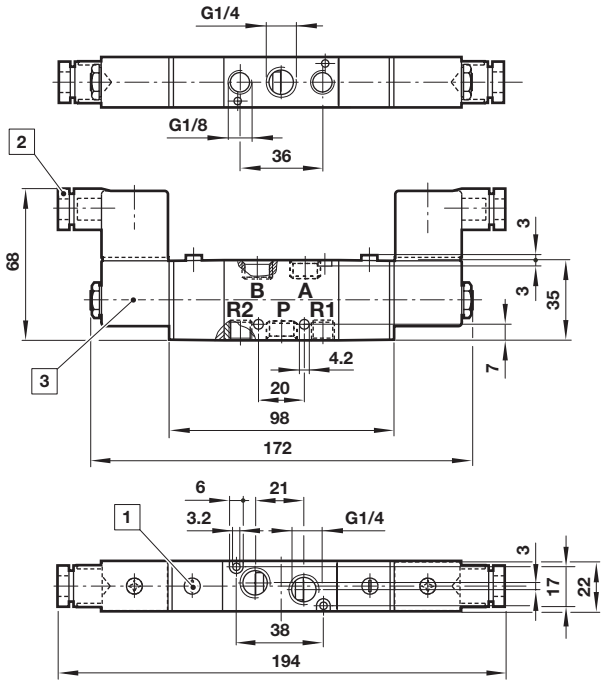
5/2 Single solenoid valve (monostable) Mechanical spring return

③



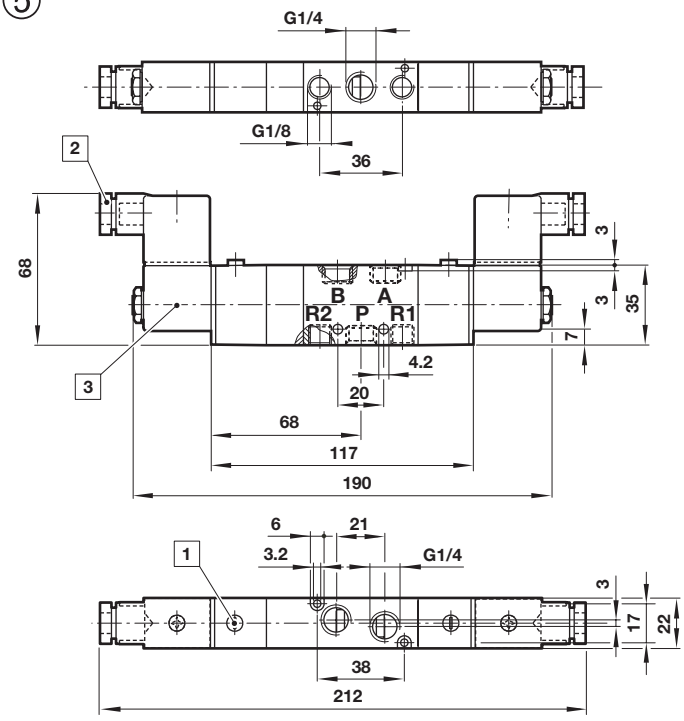
5/2 Double solenoid valve (bistable)

④



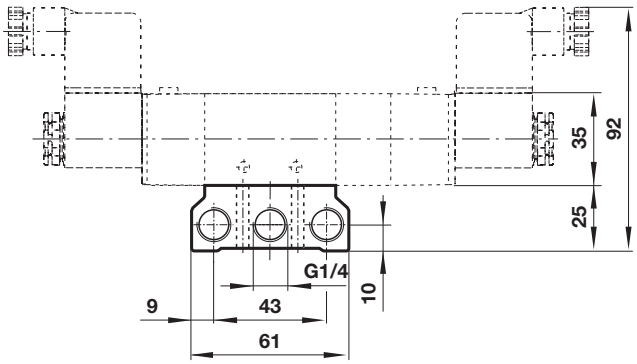
5/3 Double solenoid valve

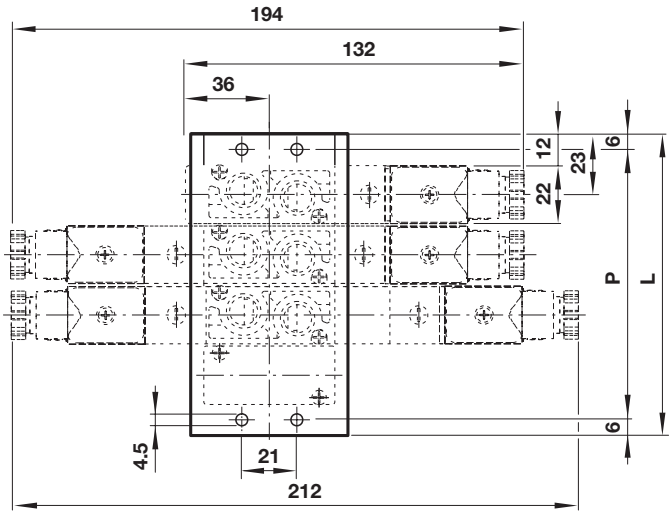
⑤



1 Manual override (Push and Detent)
2 Gland size Pg 11
3 Solenoid rotates 4 x 90°

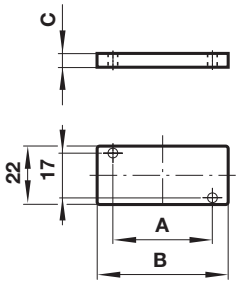
Manifold sub-base





Type	No. of station	P	L	Weight (kg)
200M-2F	2	57	69	0,200
200M-3F	3	80	92	0,261
200M-4F	4	103	115	0,322
200M-5F	5	126	138	0,383
200M-6F	6	149	161	0,440
200M-7F	7	172	184	0,505
200M-8F	8	195	207	0,566
200M-9F	9	218	230	0,627
200M-10F	10	241	253	0,688

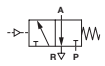
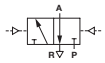
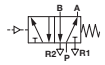
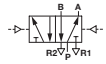
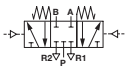
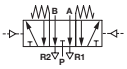
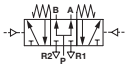
Blanking plate for manifold sub-base



Type	For function	A	B	C	Weight (kg)
200M-B	5/2	38	50	2	0,018

Port size: G 1/4”

Pilot actuated valves

Symbol	Model	Function	Pilot	Mid position	Return	Operating pressure (bar)	Pilot pressure (bar)	Flow (l/min)	Weight (kg)	Drawing No.
	**5302 000**	3/2	Air		Spring	0 ... 8	1,5 ... 8	1000	0,122	⑬
	**5302 100**	3/2	Air		Air	0 ... 8	1,5 ... 8	1000	0,134	⑮
	**5402 000**	5/2	Air		Spring	0 ... 8	1,5 ... 8	1000	0,106	⑰
	**5402 100**	5/2	Air		Air	0 ... 8	1,5 ... 8	1000	0,134	⑲
	**5602 200**	5/3	Air	APB	Spring	0 ... 8	1,5 ... 8	750	0,179	㉑
	**5602 300**	5/3	Air	COE	Spring	0 ... 8	1,5 ... 8	750	0,179	㉑
	**5602 400**	5/3	Air	COP	Spring	0 ... 8	1,5 ... 8	750	0,179	㉑

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

Numbering Chart

5★02X00

5 Series

Thread size	Substitute
1/4”	**02**

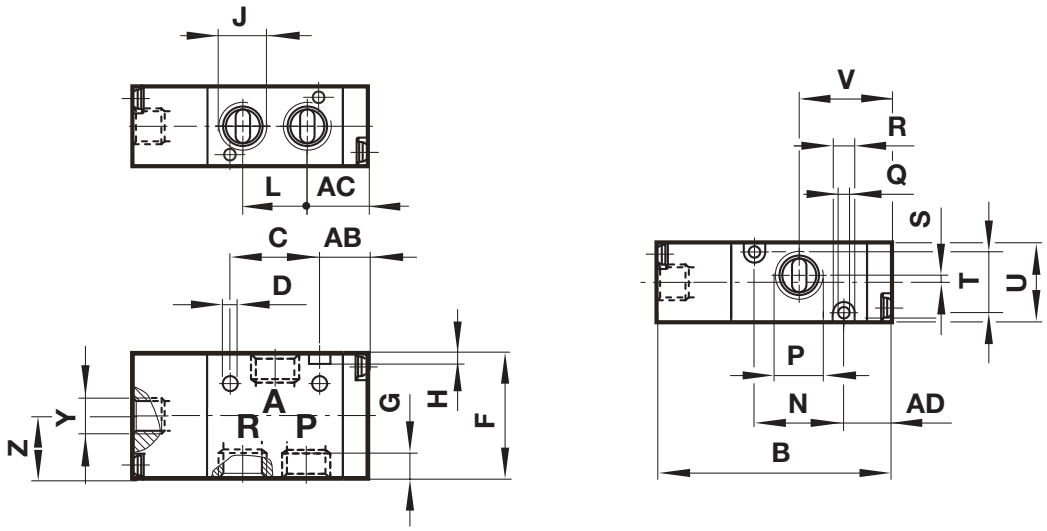
Return	Substitute
Spring	**0**
Air	**1**
Spring (APB)	**2**
Spring (COE)	**3**
Spring (COP)	**4**

Function	Substitute
3/2 Normally closed	**3**
5/2	**4**
5/3	**6**

Ordering example

To order a 5/2 valve, G1/4 ports, air pilot, spring return
Type: 5402 000

3/2 Single air pilot valve,
Port: G 1/4”
Spring return
⑬



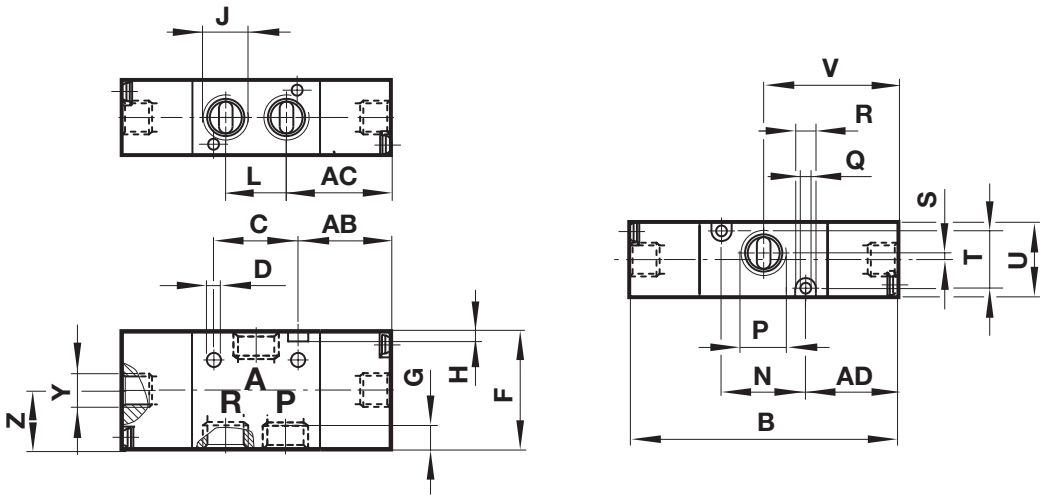
Serie	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
53	⑬	12,5	16	12,5	70	25	4,3	35	8,5	3	1/4“	22.5

Serie	Drawing	N	P	Q	R	S	T	U	V	X	Y	Z
53	⑬	30	1/4“	3,2	6	2	17	22	27.5	-	1/8“	17,5

Attention:
Port: P, A and R (G 1/4”)

3/2 Double air pilot valve, Port: G 1/4”

⑮



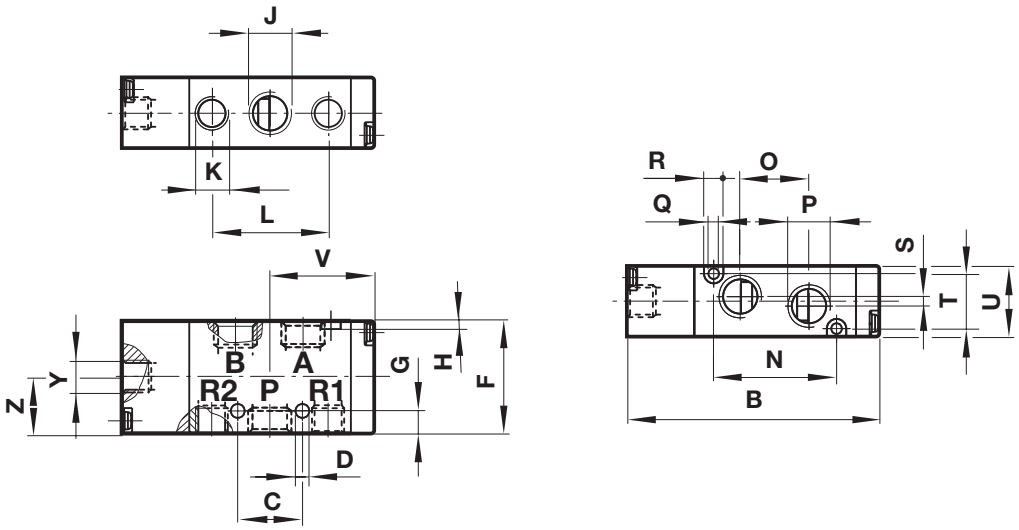
Serie	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
53	⑮	27	30.75	27	84	25	4,3	35	8,5	3	1/4“	22.5

Serie	Drawing	N	P	Q	R	S	T	U	V	X	Y	Z
53	⑮	30	1/4“	3,2	6	2	17	22	42	-	1/8“	17,5

Attention:
Port: P, A and R (G 1/4”)

5/2 Single air pilot valve,
Port: G 1/4”
Spring return

⑰



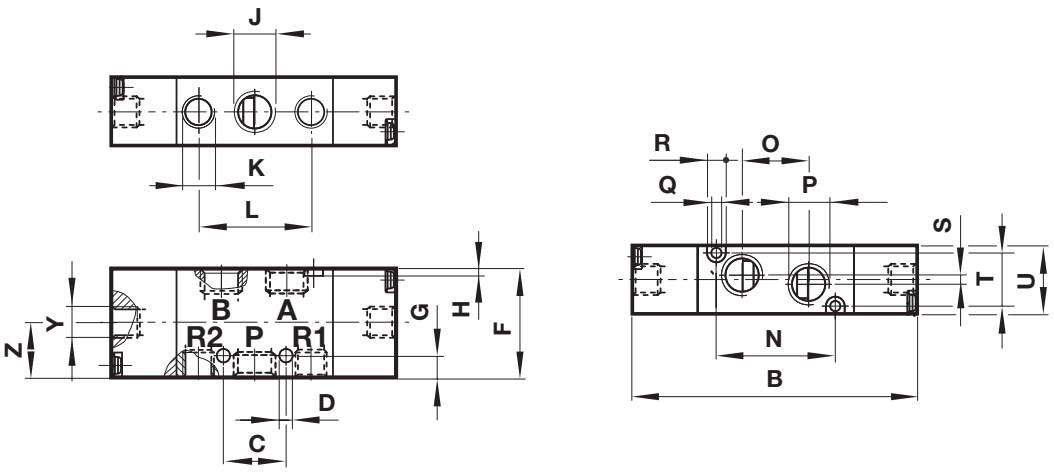
Serie	Drawing	B	C	D	F	G	H	J	K	L	N
54	⑰	77,7	20	4,3	35	7	3	1/4	1/8	36	38

Serie	Drawing	O	P	Q	R	S	T	U	V	Y	Z
54	⑰	21	1/4	3,2	6	3	17	22	31.7	1/8	17,5

Attention:
Port: P, A and B (G 1/4”)
Port: R1 and R2 (G 1/8”)

5/2 Double air pilot valve, Port: G 1/4”

⑲



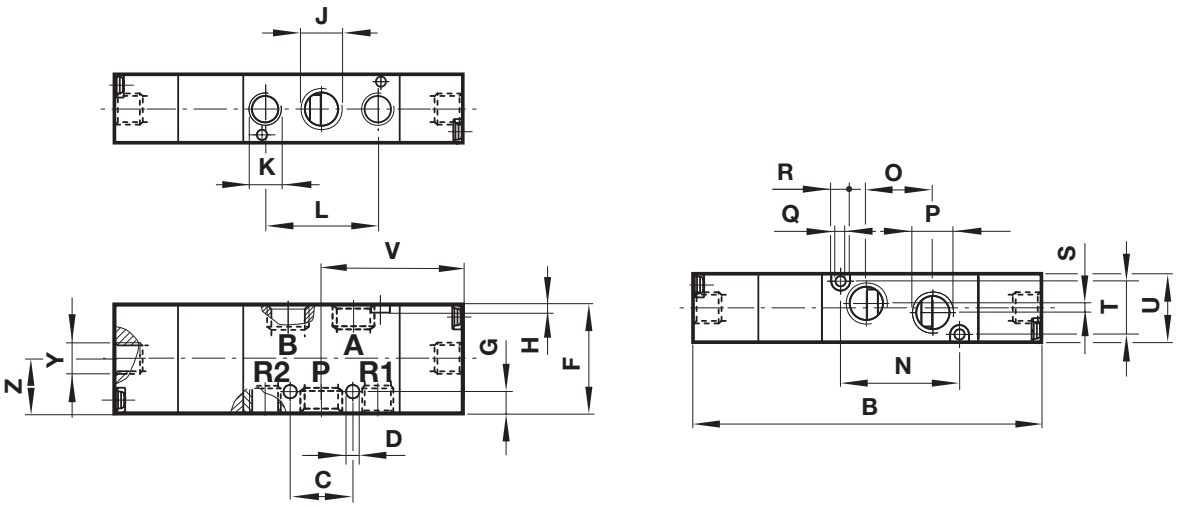
Serie	Drawing	B	C	D	F	G	H	J	K	L	N
54	⑲	92	20	4,3	35	7	3	1/4“	1/8“	36	38

Serie	Drawing	O	P	Q	R	S	T	U	Y	Z
54	⑲	21	1/4“	3,2	6	3	17	22	1/8“	17,5

Attention:
Port: P, A and B (G 1/4”)
Port: R1 and R2 (G 1/8”)

5/3 Double air pilot valve, Port: G 1/4”

(21)



Serie	Drawing	B	C	D	F	G	H	J	K	L	N
56	(21)	111	20	4,3	35	7	3	1/4	1/8	36	38

Serie	Drawing	O	P	Q	R	S	T	U	V	Y	Z
56	(21)	21	1/4	3,2	6	3	17	22	46	1/8	17,5

Attention:
Port: P, A and B (G 1/4”)
Port: R1 and R2 (G 1/8”)