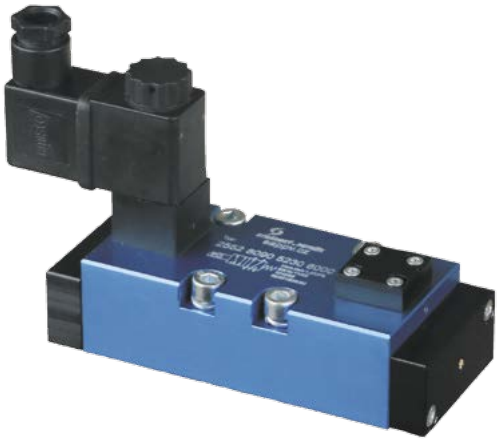
SOLENIOD ACTUATED VALVES
SERIES K ISO 5599/1



Our soleniod actuated valve series K ISO 5599/1 is based on the classic ISO series, but has higher flow rate and is also highly economical, compared to the discontinued ISO 5599/1 Compact series. Air pilot is used for valve actuating, so it is an indirectly actuated valve. The valves are mounted on base plates standardized according to ISO. The coils and pilot valves are common with the K series. Coil can be rotated to best suit the application. Valves can be used on the base plate individually or mounted as a group assembly.

Valves of the K ISO 5599/1 Compact series contain a spool ans slide assembly, which guarantees a long service life of the valve.

Series	K5 ISO 1	K6 ISO 2	K7 ISO 3
Flow capacity [Nl/min]	1200	2800	4200
Working pressure [MPa]	0.15 to 1.0 (vacuum up to 2.1 MPa when external air pilot supply is used)*		
Pilot pressure range [MPa]	0.15 to 1.0		
Power input [W, VA] (standard coils)	3W for DC voltage, 7.5VA inrush and 5VA hold for AC voltage		
Response time energize / de-energize [ms]	20 / 35		
Temperature range [°C]	medium temperature max. 50, ambient temperature -20 to +50		
Enclosure (standard coils)	IP65 with sealed and fastened connector		

*) For the possibility of using an external air pilot supply, contact our technical department.

Order codes

25 528090 52 60 6 000

Function		
52 80 90		5/2 monostable (with 1 coil)
52 80 80		5/2 bistable (with 2 coils)
53 80 80		5/3 with exhaust centre position

Size	
51	series ISO 1 (only for series K5)
52	series ISO 2 (only for series K6)
53	series ISO 3 (only for series K7)

Voltage	
30	24 V DC ± 10%
40	24 V AC ± 10% 50-60 Hz
50	110 V AC ± 10% 50-60 Hz
60	230 V AC ± 10% 50-60 Hz
31	24 V DC ± 10% ATEX II 2G(D)

Series	
5	K5 (only for size ISO 1)
6	K6 (only for size ISO 2)
7	K7 (only for size ISO 3)

Construction / materials

- body: aluminium alloy
- spool and sleeve assembly: hardened stainless steel
- main valve sealing: NBR
- pilot valve sealing: Viton®

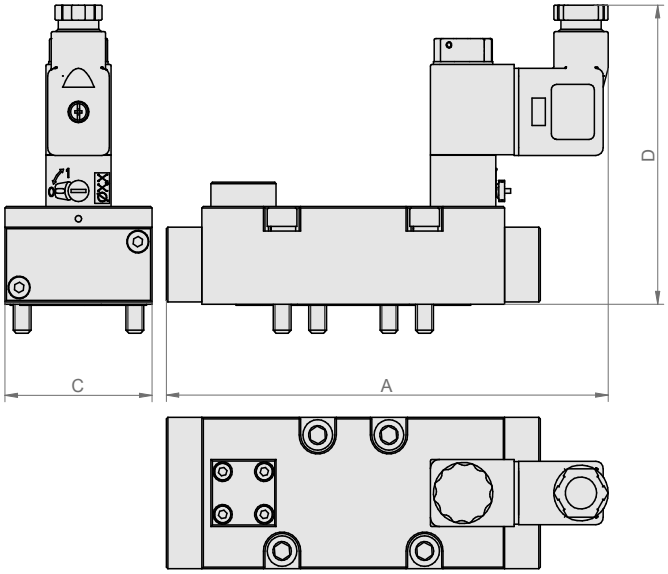
When using an external air pilot supply, the valve can distribute media with pressures from vacuum to 2,1 MPa. In this case, the auxiliary control pressure must be in the range of 0,15 to 1,0 MPa and the valve has a different ordering code. If this solution is required, please contact our technical department.

Supply contains connector(s).

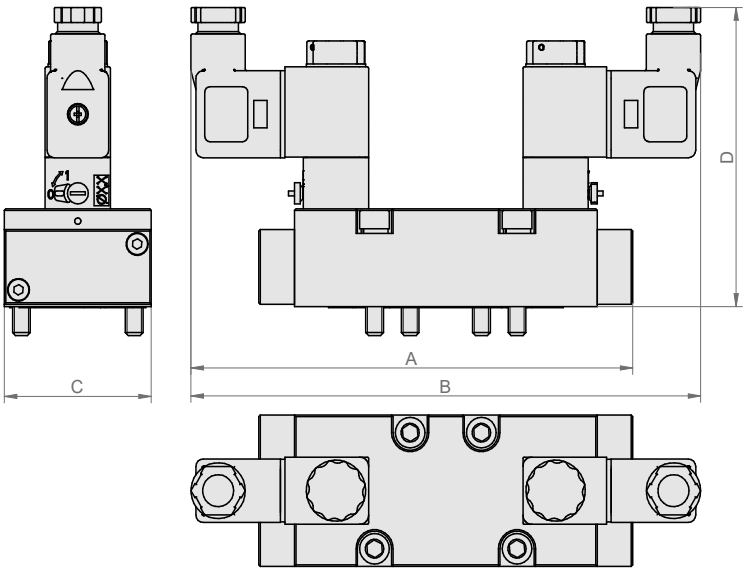
Individual bases, manifold blocks and end plates - see page 5-35.

Dimensions

Type 5/2 with a single soleniod:



Type 5/2 and 5/3 with double soleniod:



Series	Function	A	B	C	D	Weight [kg]
K5 ISO 1	528090	136	—	42	95	0,42
	528080, 538080	136	164	42	95	0,50
K6 ISO 2	528090	149	—	49,5	98	0,60
	528080, 538080	149	172	49,5	98	0,68
K7 ISO 3	528090	179	—	63	107	1,22
	528080, 538080	175	191	63	107	1,35

Spare pilot valve for valve series K

Order code	Part	Working pressure [MPa]	Weight [kg]
2532 8090 0000 0004	Pilot	0 to 1	0.027
N230-363	Connector type 22	—	0.024
N540270	Nut	—	0.002

Spare coils for valve series K

Standard coils type 22

Order code	Voltage	Coil type	Weight [kg]
2500 8181 0030 0013	24V DC	DIN 43650B	0.06
2500 8181 0040 0010	24V 50-60 Hz	DIN 43650B	0.06
2500 8181 0060 0009	230V 50-60 Hz	DIN 43650B	0.06
PMVSC220-COA110	110V 50-60 Hz	DIN 43650B	0.06

Notice: The connector is fastened with a M3 screw with a maximum torque of 0.4 to 0.6 Nm

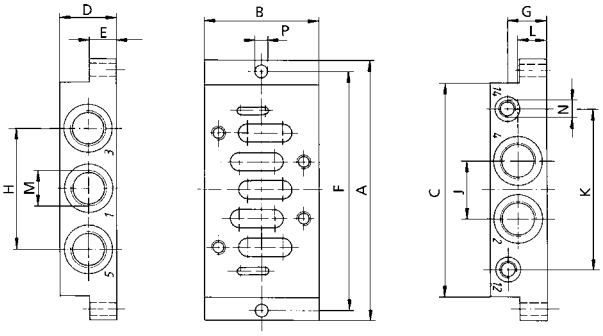
Coil type 22 with ATEX Ⓔx certification

Order code	Voltage	Cable length [m]	Weight [kg]
2500 8181 0030 0014	24V DC	5	0.46

Ⓔx II 2G Ex mb IIC T5 Gb
Ⓔx II 2D Ex tb IIIC T95°C Db IP66

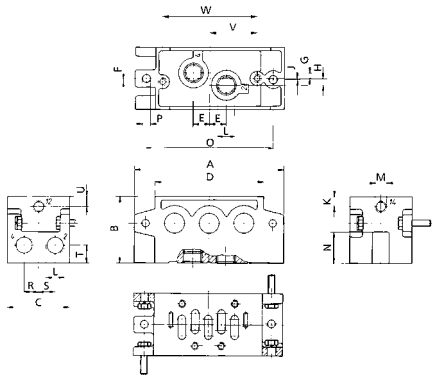
U=24V DC ±10%
I=125 mA
P=3W
Ta=-20°C to +50°C

Individual base VDMA 24345, form A, with side ports



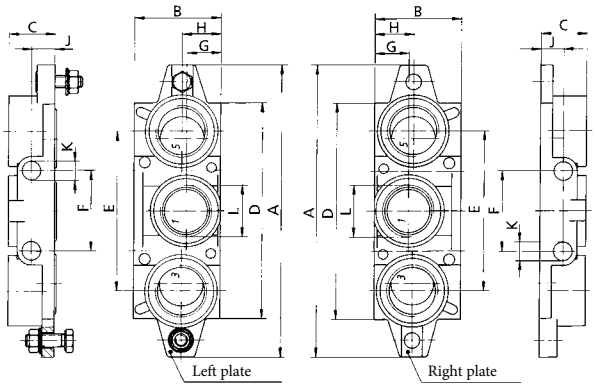
Order codes	Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Weight [kg]
N103-544	ISO 1	105	40	78	25	10	90-98	12,5	40	19	55	10	G1/4“	G1/8“	6	0,23
N103-549	ISO 2	126	50	86	30	15	112	20	52	23	68	14	G3/8“	G1/8“	6,5	0,36
N103-545	ISO 3	150	70	110	30	15	136	20	64	32	90	15	G1/2“	G1/8“	6,5	0,59

Manifold block with side and bottom ports



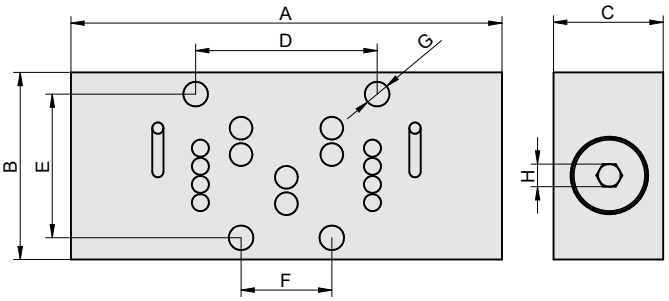
Order codes	Size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V	W	Weight [kg]
N239-241	ISO 1	110	50	43	84	13	3	1.5	7.5	1.2	10	G1/4“	G1/8“	23	95	5.4	9.5	12	13	10	35.5	71	0.40
N239-245	ISO 2	135	60	56	98.5	15	3	5	6	1	9	G3/8“	G1/8“	28	115	6.6	13	15	16	9	43	86	0.60
N239-249	ISO 3	190	66	71	140	19	3	6	8	1.3	9.5	G1/2“	G1/8“	32	168	8.6	16.5	19	18	9.5	65	130	1.20

End plate kit VDMA 24345, form D for manifold blocks



Order codes	Size	A	B	C	D	E	F	G	H	J	K	L	Weight [kg]
N239-257	ISO 1	109	46	22	85	56	28	22	25	10.5	7	G3/8“	0.30
N239-255	ISO 2	135	47	26	98.5	68	35	24	25	12.5	9	G1/2“	0.40
N239-259	ISO 3	190	56	32	140	104	52	22	25	12.5	12	G1“	0.70

Sandwich plate with speed control on outputs 3 and 5



Order codes	Size	A	B	C	D	E	F	G	H	Weight [kg]
2500 8181 0600 5000	ISO 1	90	42	24,5	36	28	18	5,5	4	0,31
2500 8181 0800 6000	ISO 2	114	49,5	29,5	48	38	24	6,5	6	0,54
2500 8181 1000 7000	ISO 3	134	63	34,5	64	48	32	8,5	6	0,95

The sandwich plate is designed for exhaust flow control (ports 3 and 5). It is particularly useful in applications where the cylinder is located in an inaccessible area, but the valves remain accessible. Turning the adjustment screw to the left decreases the flow and, consequently, the speed.