Balanced spool pneumatic microvalves - K Series

Connections: 1/8"

K SERIES

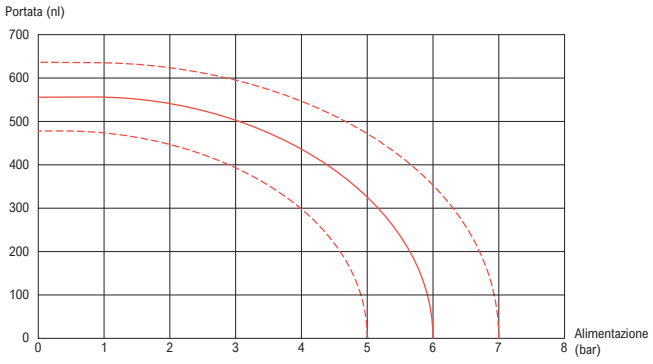


- Balanced spool valves with dynamic sealing
- Fast switching times
- Small footprint
- Anodised aluminium body and bases
- Pneumatically operated with external piloting
- Possibility of series assembly

TECHNICAL FEATURES		
Function		5/2
Operation		Pneumatic: External piloting - Monostable pneumatic spring return, bistable
Materials		Body, base and cover in anodised aluminium alloy - Internal components in steel - aluminium - brass NBR gaskets
Note on materials		Compliant with REACH (1907/2006/EC and subsequent amendments)
Connections		1/8" Gas
Threads		Cylindrical gases (BSPP)
Operating temperature		0°C ÷ 80°C (-20°C with dry air, to avoid ice formation)
Operating pressure		0 ÷ 7 bar
Pilot actuation pressure		1.5 bar
Air flow rate		1/8"
Nominal diameter		4mm
Supply pressure	5 bar	320 Nl/min
(with ΔP 1 bar)	6 bar	350 Nl/min
	7 bar	400 Nl/min
		See flow diagram page 3.1.05.1
Fluid		Filtered air, lubrication-free, compliant with ISO 8573-1:2010 [7:4:4]
Lubrication		Not required (if required in the pneumatic circuit, it must be continuous)

FLOW DIAGRAMS - PNEUMATICALLY OPERATED VALVES

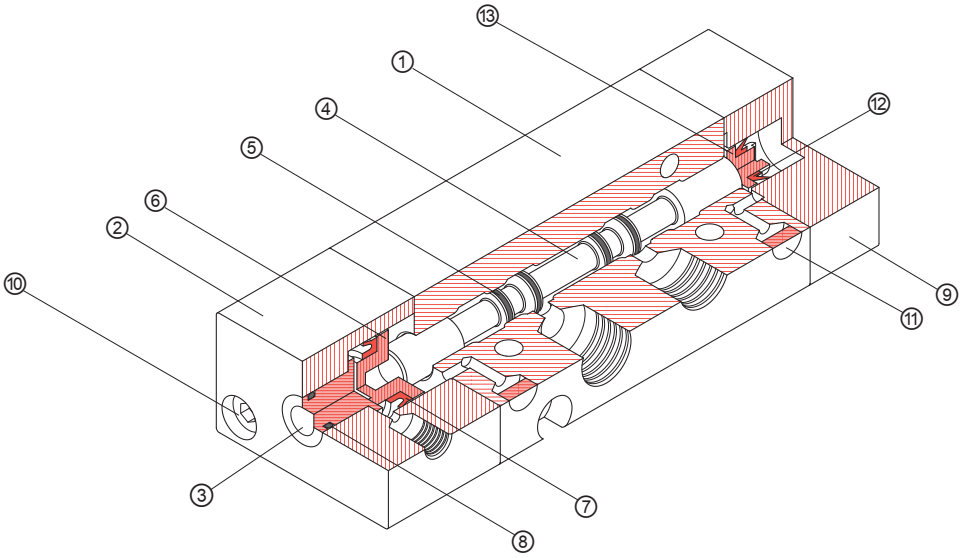
FLOW RATE DIAGRAM - 1/8" MICROVALVE



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MATERIALS - PNEUMATICALLY OPERATED VALVES

POS	DESCRIPTION	MATERIALS	POS	DESCRIPTION	MATERIALS
①	Body	Anodised drawn aluminium	⑧	O-ring	Nitrile rubber (NBR)
②	Cover	Anodised drawn aluminium	⑨	Base	Anodised aluminium
③	Manual control	Anodised aluminium	⑩	Screw	Galvanised steel
④	Spool	Anodised aluminium	⑪	Silencer	Sintered bronze
⑤	Sealing gasket	Nitrile rubber (BUNA-N)	⑫	Sealing gasket	Nitrile rubber (NBR)
⑥	Piston	Nylon	⑬	Piston	Galvanised aluminium
⑦	Piston gasket	PUR 90 ShA			



CODING KEY - PNEUMATICALLY OPERATED VALVES

Operation

DK

DK = Pneumatic External piloting

Function

13

13 = 5/2 Monostable 5/2 Bistable

Size

80

80 = 1/8" Gas

Version

10

10 = Monostable Pneumatic spring return

20 = Pneumatic bistable

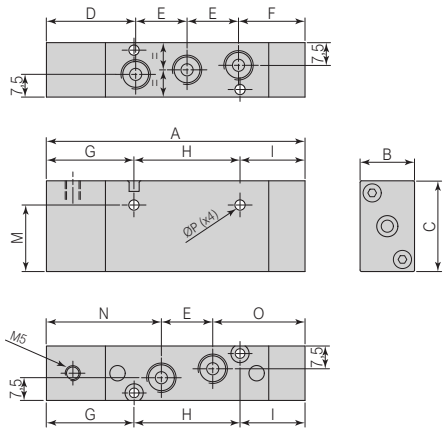
POSSIBLE CONFIGURATIONS

Operation	Function	Size	Version
DK Pneumatic external piloting	**13** 5/2	**80** 1/8" Gas	**10** Monostable Pneumatic return **20** Pneumatic bistable

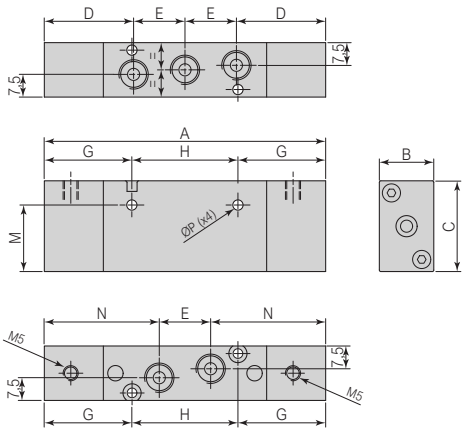
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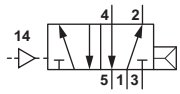
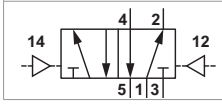
DIMENSIONS - PNEUMATICALLY OPERATED 5/2 VALVES

MONOSTABLE WITH PNEUMATIC BISTABLE



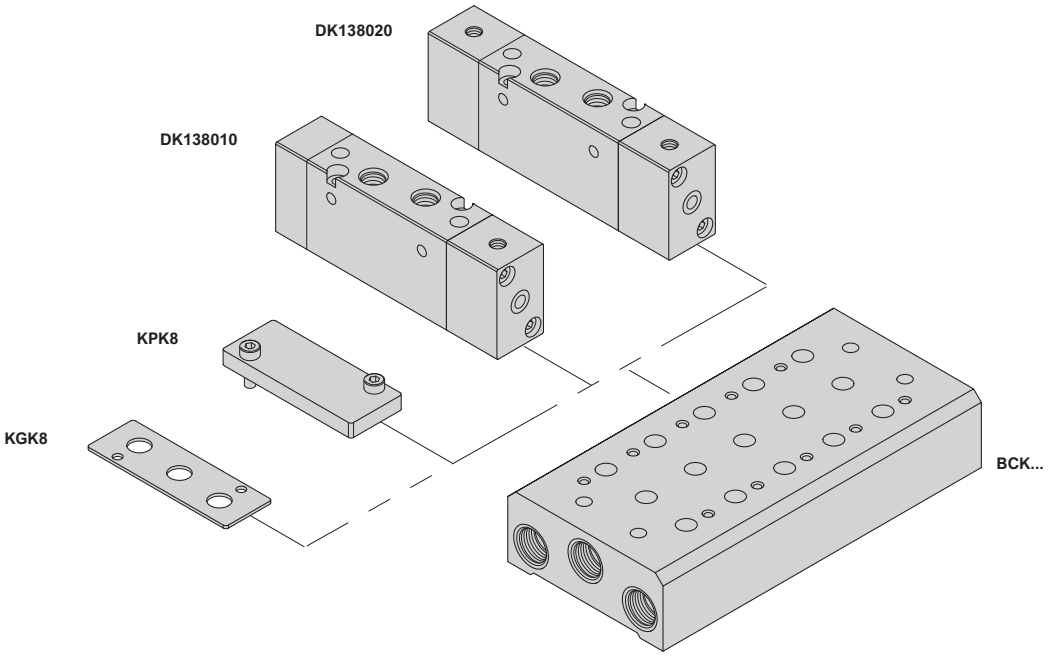
SPRING RETURN

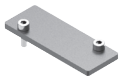


Symbol	Connections	Code	A	B	C	D	E	F	G	H	I	M	N	O	Ø P
	Gas 1/8"	DK138010	88.5	18	30	29.5	17	22	29	35	21.5	22	38	30.5	3.2
	Gas 1/8"	DK138020	93	18	30	29.5	17	-	29	35	-	22	38	-	3.2

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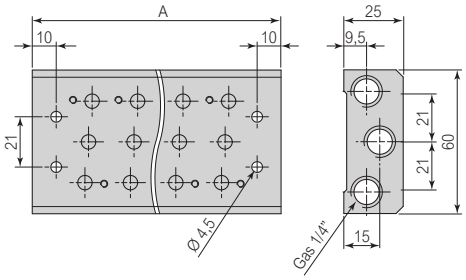
K SERIES ACCESSORIES



SUB-BASES BCK...									GASKET For BCK sub-base...	EXCLUSION PLATE For BCK sub-base...
										
Page 3.3.05.8									Page 3.3.05.19	Page 3.3.05.8
2 seats	3 seats	4 seats	5 seats	6 seats	7 seats	8 seats	9 seats	10 seats		
BCK82	BCK83	BCK84	BCK85	BCK86	BCK87	BCK88	BCK89	BCK810	KGK8	KPK8
Anodised aluminium sub-base Zinc-plated steel fixing screws - NBR gaskets									NBR gasket	Anodised aluminium plate Zinc-plated steel screws

ACCESSORIES

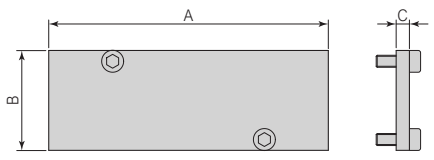
BCK ..
Sub-base



	A								
	BCK82	BCK83	BCK84	BCK85	BCK86	BCK87	BCK88	BCK89	BCK810
	2 seats	3 seats	4 seats	5 seats	6 seats	7 seats	8 seats	9 seats	10 seats
	66	85	104	123	142	161	180	199	218

Anodised aluminium sub-base - Zinc-plated steel fixing screws - NBR gaskets / 1 piece per pack

EXCLUSION PLATE
For BCK sub-bases...



Code	A	B	C
KPK8	54	20	3

Anodised aluminium plate - Zinc-plated steel fixing screws / 1 piece per pack

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