

Balanced spool electropneumatic valves - K83 Series

Connections: 1/8" - 1/4"

K SERIES



Balanced spool valves with static sealing

Fast switching times

Small footprint

Anodised aluminium body and bases

Electro-pneumatically operated
Internal servo-pilot

Possibility of series assembly

ATEX 2014/34/EU certificates available

TECHNICAL FEATURES

Function	5/2 - 5/3	
Operation	Electropneumatic: Internal servo-pilot - Monostable mechanical and pneumatic, bistable spring return, three positions	
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" - 1/4" Gas	
Threads	Cylindrical gases (BSPP)	
Operating temperature	0°C ÷ 80°C (-20°C with dry air, to avoid ice formation)	
Operating pressure	2 ÷ 10 bar	
Pilot actuation pressure	2 bar	
Air flow rate	1/8"	1/4"
Nominal diameter	5mm	7.5mm
Supply pressure	5 bar	500 NI/min
(with ΔP 1 bar)	6 bar	550 NI/min
	7 bar	600 NI/min
	See flow diagram page 3.1.05.21	
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)	

COILS ELECTRICAL CHARACTERISTICS

Coil type	Type "C" (22mm)	
Operating voltage	24 VDC	24, 110, 220 VAC
Power (max.)	4.8 W	5.5 VA
Tolerance	± 10%	
Protection class	IP54 / IP65	
Other features	See from p. 3.3.05.10	

ATEX CERTIFICATION

Valve marking	CE Ⓜ II 2G Ex h IIC T6 Gb (Zone 1 and Zone 2) CE Ⓜ II 2D Ex h IIIC 85°C Db (Zone 21 and Zone 22)
Operating pressure in ATEX environment	0.5 ÷ 10 bar
ATEX ambient temperature	-20°C ≤ Ta ≤ +60°C
CE marking	In compliance with Directive 2014/34/EU (see declaration of conformity)

