

## Balanced spool pneumatic valves - C series(former. CETOP)

Connections: 1/8" - 1/4" - 3/8" - 1/2"

### C SERIES



Balanced spool valves

Fast switching times

High mechanical strength

Anodised aluminium body  
Thermoplastic polymer or anodised aluminium bases

3/2 - 5/2 - 5/3 pneumatic operatOR  
External piloting

Possibility of series assembly

Available with ATEX 2014/34/EU certification

### TECHNICAL CHARACTERISTICS

<b>Function</b>	3/2 - 5/2 - 5/3		
<b>Operation</b>	Pneumatic: External pilot - Monostable mechanical or pneumatic spring return, bistable, three positions		
<b>Materials</b>	Anodised aluminium alloy body, thermoplastic polymer (PBT) / anodised aluminium alloy base and cover Internal components in steel - aluminium - brass - NBR gaskets		
<b>Note on materials</b>	Compliant with REACH (1907/2006/EC and subsequent amendments)		
<b>Connections</b>	Size A: 1/8" Gas (Available with 1/4" Gas connections) Size B: 1/4" Gas (Available with 3/8" Gas connections) Size C: 1/2" Gas		
<b>Threads</b>	Cylindrical gases (BSPP)		
<b>Operating temperature</b>	0°C ÷ +80°C (-20°C with dry air, to avoid ice formation)		
<b>Operating pressure</b>	0 ÷ 10 bar		
<b>Pilot operation pressure</b>	2 bar		
<b>Air flow rate</b>	Size A - 1/8", 1/4"	Size B - 1/4", 3/8"	Size C - 1/2"
Rated diameter	5mm	8mm	12mm
Supply pressure	5 bar 460 NI/min	840 NI/min	2100 NI/min
(with ΔP 1 bar)	6 bar 500 NI/min	930 NI/min	2300 NI/min
	7 bar 540 NI/min	1020 NI/min	2450 NI/min
	See flow diagram page 3.3.05.2		
<b>Fluid</b>	Filtered air, lubrication-free, compliant with ISO 8573-1:2010 [7:4:4]		
<b>Lubrication</b>	Not required (if required in the pneumatic circuit, it must be continuous)		

### ATEX CERTIFICATION

<b>Valve marking</b>	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)	
<b>Operating pressure in ATEX environment</b>	0.5 ÷ 10 bar	
<b>ATEX ambient temperature</b>	-20°C ≤ Ta ≤ +60°C	
<b>CE marking</b>	In compliance with Directive 2014/34/EU (see declaration of conformity)	

## Balanced spool electropneumatic valves - C Series(ex. CETOP)

Connections: 1/8" - 1/4" - 3/8" - 1/2"

### C SERIES



Balanced spool valves

Fast switching times

High mechanical strength

Anodised aluminium body  
Thermoplastic polymer or anodised aluminium bases

3/2 - 5/2 - 5/3 electro-pneumatically operator  
Internal servo-pilot

Possibility of series assembly

Available with ATEX 2014/34/EU certification

### TECHNICAL CHARACTERISTICS

<b>Function</b>	3/2 - 5/2 - 5/3		
<b>Operation</b>	Electro-pneumatically: Internal servo-pilot - Monostable mechanical or pneumatic spring return, bistable and three positions		
<b>Materials</b>	Anodised aluminium alloy body, thermoplastic polymer (PBT) / anodised aluminium alloy base and cover Internal components in steel - aluminium - brass - NBR gaskets		
<b>Note on materials</b>	Compliant with REACH (1907/2006/EC and subsequent amendments)		
<b>Connections</b>	Size A: 1/8" Gas (Available with 1/4" Gas connections) Size B: 1/4" Gas (Available with 3/8" Gas connections) Size C: 1/2" Gas		
<b>Threads</b>	Cylindrical gases (BSPP)		
<b>Operating temperature</b>	0°C ÷ +80°C (-20°C with dry air, to avoid ice formation)		
<b>Operating pressure</b>	0 ÷ 10 bar		
<b>Pilot operation pressure</b>	2 bar		
<b>Air flow rate</b>	Size A - 1/8", 1/4"	Size B - 1/4", 3/8"	Size C - 1/2"
Rated diameter	5mm	8mm	12mm
Supply pressure	5 bar 460 NI/min	840 NI/min	2100 NI/min
(with ΔP 1 bar)	6 bar 500 NI/min	930 NI/min	2300 NI/min
	7 bar 540 NI/min	1020 NI/min	2450 NI/min
	See flow diagram page 3.3.05.2		
<b>Fluid</b>	Filtered air, lubrication-free, compliant with ISO 8573-1:2010 [7:4:4]		
<b>Lubrication</b>	Not required (if required in the pneumatic circuit, it must be continuous)		

### COILS ELECTRICAL CHARACTERISTICS

<b>Coil type</b>	Type "E" (22mm)		
<b>Operating voltage</b>	12, 24, 48 VDC	24, 48, 110, 220 VAC	
<b>Power (max.)</b>	5.5 W	6.5 VA	
<b>Tolerance</b>	± 10%		
<b>Protection class</b>	IP54 / IP65		
<b>Other characteristics</b>	See from p. 3.3.05.10		

### ATEX CERTIFICATION

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