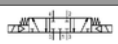
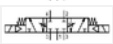
5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- Basic valve for CNOMO pilot valve
- closed center exhausted center pressurized center
- Qn = 2100 l/min
- Compressed air connection output Base plate ISO 5599-1
- suitable for ATEX



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
ATEX class G	2G Ex mb II T4
ATEX class D	2D Ex tD A21 T130°C
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.			Throttle
5812480000		closed center	-
5812481000		closed center	with throttle
5812580000		exhausted center	-
5812581000		exhausted center	with throttle
5812780000		pressurized center	-
5812781000		pressurized center	with throttle

Nominal flow Qn at 6 bar and Δp = 1 bar, The pilot can be set by turning the seal under the valve cover by 180°., For internal pilot the working pressure min/max is the same as the control pressure min/max.

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

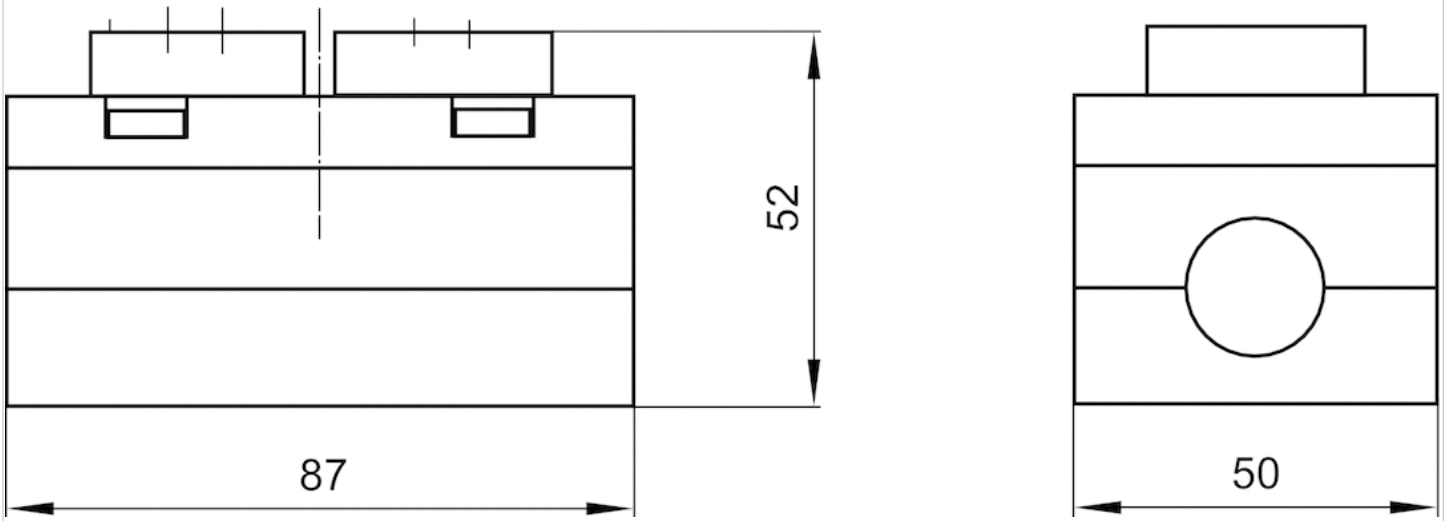
* Note: ATEX version can be produced by combining the basic valve without coil with a series DO30 CNOMO pilot valve and an ATEX coil.
ATEX ID: see ATEX coils catalog page.

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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