

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

- ISO 5599-1
- ISO 2
- 5/3
- $Q_n = 2100$  l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Version	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Nominal flow $Q_n$	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	25 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	4 Nm
Weight	0,42 kg



## Technical data

Part No.		MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
5812720500			12 V	-	-
5812720200			-	24 V	-
5812720100			24 V	-	-
5812720600			48 V	-	-
5812720300			-	-	110 V
5812720400			-	230 V	-
5812720000			-	-	-
5812721500			12 V	-	-
5812721200			-	24 V	-
5812721100			24 V	-	-
5812721600			48 V	-	-
5812721300			-	-	110 V
5812721400			-	230 V	-
5812721000			-	-	-
5812722500			12 V	-	-
5812722200			-	24 V	-
5812722100			24 V	-	-
5812722600			48 V	-	-
5812722300			-	-	110 V
5812722400			-	230 V	-
5812722000			-	-	-
5812723500			12 V	-	-
5812723200			-	24 V	-
5812723100			24 V	-	-
5812723600			48 V	-	-
5812723300			-	-	110 V
5812723400			-	230 V	-
5812723000			-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5812720500	-10% / +10%	-	-	5 W
5812720200	-	-10% / +10%	-	-
5812720100	-10% / +10%	-	-	5 W
5812720600	-10% / +10%	-	-	5 W
5812720300	-	-	-10% / +10%	-
5812720400	-	-10% / +10%	-	-
5812720000	-	-	-	-
5812721500	-10% / +10%	-	-	5 W
5812721200	-	-10% / +10%	-	-
5812721100	-10% / +10%	-	-	5 W
5812721600	-10% / +10%	-	-	5 W
5812721300	-	-	-10% / +10%	-
5812721400	-	-10% / +10%	-	-
5812721000	-	-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5812722500	-10% / +10%	-	-	5 W
5812722200	-	-10% / +10%	-	-
5812722100	-10% / +10%	-	-	5 W
5812722600	-10% / +10%	-	-	5 W
5812722300	-	-	-10% / +10%	-
5812722400	-	-10% / +10%	-	-
5812722000	-	-	-	-
5812723500	-10% / +10%	-	-	5 W
5812723200	-	-10% / +10%	-	-
5812723100	-10% / +10%	-	-	5 W
5812723600	-10% / +10%	-	-	5 W
5812723300	-	-	-10% / +10%	-
5812723400	-	-10% / +10%	-	-
5812723000	-	-	-	-

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5812720500	-	-	-	-	internal
5812720200	8 VA	-	10 VA	-	internal
5812720100	-	-	-	-	internal
5812720600	-	-	-	-	internal
5812720300	-	8 VA	-	10 VA	internal
5812720400	8 VA	-	10 VA	-	internal
5812720000	-	-	-	-	internal
5812721500	-	-	-	-	internal
5812721200	8 VA	-	10 VA	-	internal
5812721100	-	-	-	-	internal
5812721600	-	-	-	-	internal
5812721300	-	8 VA	-	10 VA	internal
5812721400	8 VA	-	10 VA	-	internal
5812721000	-	-	-	-	internal
5812722500	-	-	-	-	external
5812722200	8 VA	-	10 VA	-	external
5812722100	-	-	-	-	external
5812722600	-	-	-	-	external
5812722300	-	8 VA	-	10 VA	external
5812722400	8 VA	-	10 VA	-	external
5812722000	-	-	-	-	external
5812723500	-	-	-	-	external
5812723200	8 VA	-	10 VA	-	external
5812723100	-	-	-	-	external
5812723600	-	-	-	-	external
5812723300	-	8 VA	-	10 VA	external
5812723400	8 VA	-	10 VA	-	external
5812723000	-	-	-	-	external

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5812720500	3 ... 10 bar	Plug Form B, industry
5812720200	3 ... 10 bar	Plug Form B, industry
5812720100	3 ... 10 bar	Plug Form B, industry
5812720600	3 ... 10 bar	Plug Form B, industry
5812720300	3 ... 10 bar	Plug Form B, industry
5812720400	3 ... 10 bar	Plug Form B, industry
5812720000	3 ... 10 bar	Plug Form B, industry
5812721500	3 ... 10 bar	Plug Form B, industry
5812721200	3 ... 10 bar	Plug Form B, industry
5812721100	3 ... 10 bar	Plug Form B, industry
5812721600	3 ... 10 bar	Plug Form B, industry
5812721300	3 ... 10 bar	Plug Form B, industry
5812721400	3 ... 10 bar	Plug Form B, industry
5812721000	3 ... 10 bar	Plug Form B, industry
5812722500	-0,95 ... 10 bar	Plug Form B, industry
5812722200	-0,95 ... 10 bar	Plug Form B, industry
5812722100	-0,95 ... 10 bar	Plug Form B, industry
5812722600	-0,95 ... 10 bar	Plug Form B, industry
5812722300	-0,95 ... 10 bar	Plug Form B, industry
5812722400	-0,95 ... 10 bar	Plug Form B, industry
5812722000	-0,95 ... 10 bar	Plug Form B, industry
5812723500	-0,95 ... 10 bar	Plug Form B, industry
5812723200	-0,95 ... 10 bar	Plug Form B, industry
5812723100	-0,95 ... 10 bar	Plug Form B, industry
5812723600	-0,95 ... 10 bar	Plug Form B, industry
5812723300	-0,95 ... 10 bar	Plug Form B, industry
5812723400	-0,95 ... 10 bar	Plug Form B, industry
5812723000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5812720500	-	-
5812720200	-	-
5812720100	-	-
5812720600	-	-
5812720300	-	-
5812720400	-	-
5812720000	Basic valve without coil	-
5812721500	-	with throttle
5812721200	-	with throttle
5812721100	-	with throttle
5812721600	-	with throttle
5812721300	-	with throttle
5812721400	-	with throttle
5812721000	Basic valve without coil	with throttle
5812722500	-	-
5812722200	-	-



Part No.	basic valve with electrical connector	Throttle
5812722100	-	-
5812722600	-	-
5812722300	-	-
5812722400	-	-
5812722000	Basic valve without coil	-
5812723500	-	with throttle
5812723200	-	with throttle
5812723100	-	with throttle
5812723600	-	with throttle
5812723300	-	with throttle
5812723400	-	with throttle
5812723000	Basic valve without coil	with throttle

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

## Technical information

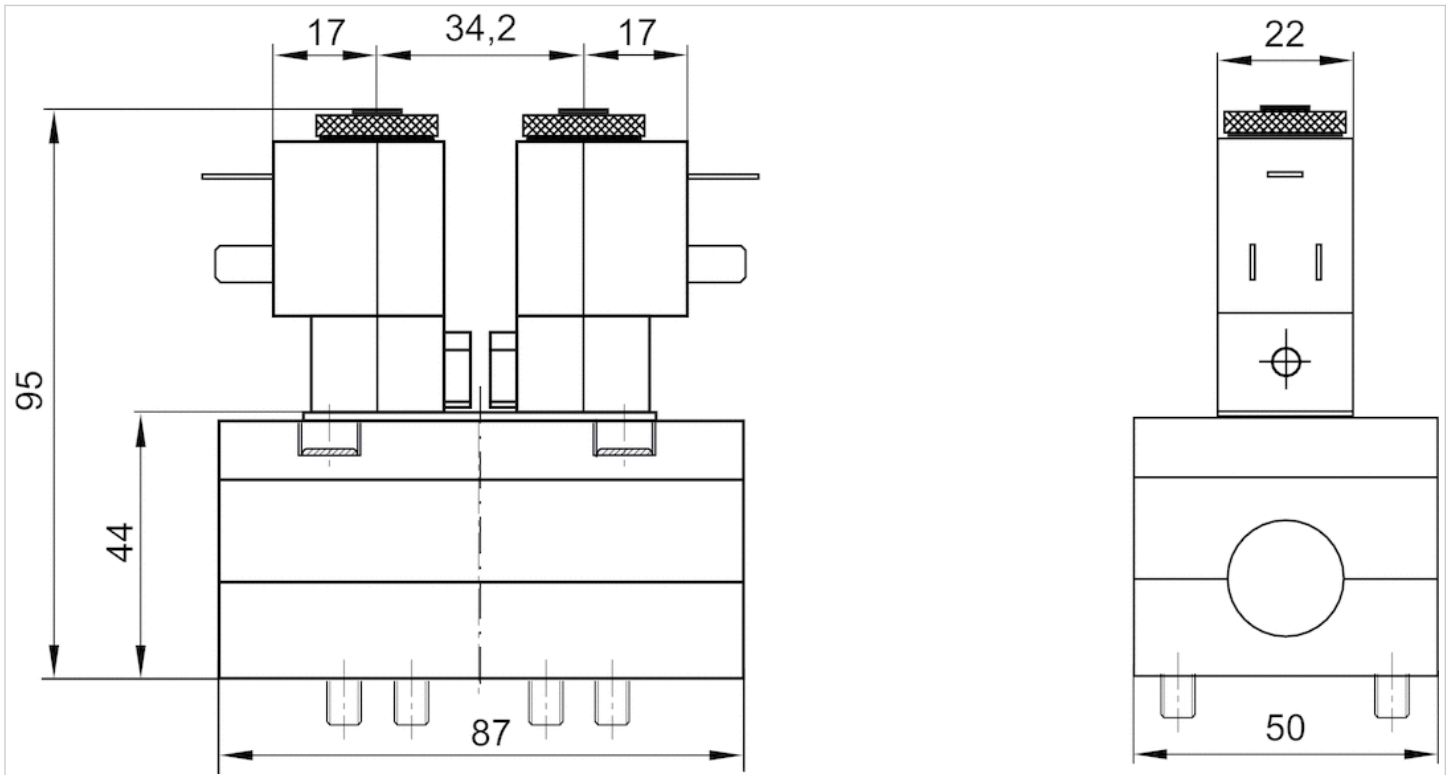
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.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

## Technical information

Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

# Dimensions

## Dimensions



The pilot valves can be loosened and turned through 180°.