

5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 4
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 ³
Nominal flow Q_n	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	22 ms
Typ. switch-off time	98 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,36 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5814110500			12 V	-
5814110200			-	24 V
5814110100			24 V	-
5814110600			48 V	-
5814110300			-	-
5814110400			-	230 V
5814110000			-	-
5814111500			12 V	-
5814111200			-	24 V
5814111100			24 V	-
5814111600			48 V	-
5814111300			-	-
5814111400			-	230 V
5814111000			-	-
5814112500			12 V	-
5814112200			-	24 V
5814112100			24 V	-
5814112600			48 V	-
5814112300			-	-
5814112400			-	230 V
5814112000			-	-
5814113500			12 V	-
5814113200			-	24 V
5814113100			24 V	-
5814113600			48 V	-
5814113300			-	-
5814113400			-	230 V
5814113000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5814110500	-	-10% / +10%	-	-
5814110200	-	-	-10% / +10%	-
5814110100	-	-10% / +10%	-	-
5814110600	-	-10% / +10%	-	-
5814110300	110 V	-	-	-10% / +10%
5814110400	-	-	-10% / +10%	-
5814110000	-	-	-	-
5814111500	-	-10% / +10%	-	-
5814111200	-	-	-10% / +10%	-
5814111100	-	-10% / +10%	-	-
5814111600	-	-10% / +10%	-	-
5814111300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5814111400	-	-	-10% / +10%	-
5814111000	-	-	-	-
5814112500	-	-10% / +10%	-	-
5814112200	-	-	-10% / +10%	-
5814112100	-	-10% / +10%	-	-
5814112600	-	-10% / +10%	-	-
5814112300	110 V	-	-	-10% / +10%
5814112400	-	-	-10% / +10%	-
5814112000	-	-	-	-
5814113500	-	-10% / +10%	-	-
5814113200	-	-	-10% / +10%	-
5814113100	-	-10% / +10%	-	-
5814113600	-	-10% / +10%	-	-
5814113300	110 V	-	-	-10% / +10%
5814113400	-	-	-10% / +10%	-
5814113000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5814110500	5 W	-	-	-
5814110200	-	8 VA	-	10 VA
5814110100	5 W	-	-	-
5814110600	5 W	-	-	-
5814110300	-	-	8 VA	-
5814110400	-	8 VA	-	10 VA
5814110000	-	-	-	-
5814111500	5 W	-	-	-
5814111200	-	8 VA	-	10 VA
5814111100	5 W	-	-	-
5814111600	5 W	-	-	-
5814111300	-	-	8 VA	-
5814111400	-	8 VA	-	10 VA
5814111000	-	-	-	-
5814112500	5 W	-	-	-
5814112200	-	8 VA	-	10 VA
5814112100	5 W	-	-	-
5814112600	5 W	-	-	-
5814112300	-	-	8 VA	-
5814112400	-	8 VA	-	10 VA
5814112000	-	-	-	-
5814113500	5 W	-	-	-
5814113200	-	8 VA	-	10 VA
5814113100	5 W	-	-	-
5814113600	5 W	-	-	-
5814113300	-	-	8 VA	-
5814113400	-	8 VA	-	10 VA
5814113000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5814110500	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110200	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110100	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110600	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110300	10 VA	Internal	3 ... 10 bar	Plug Form B, industry
5814110400	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110000	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111500	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111200	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111100	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111600	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111300	10 VA	Internal	3 ... 10 bar	Plug Form B, industry
5814111400	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111000	-	Internal	3 ... 10 bar	Plug Form B, industry
5814112500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5814112400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5814113400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814110500	-	-
5814110200	-	-
5814110100	-	-
5814110600	-	-
5814110300	-	-
5814110400	-	-
5814110000	Basic valve without coil	-
5814111500	-	with throttle
5814111200	-	with throttle
5814111100	-	with throttle
5814111600	-	with throttle
5814111300	-	with throttle
5814111400	-	with throttle
5814111000	Basic valve without coil	with throttle
5814112500	-	-
5814112200	-	-

Part No.	basic valve with electrical connector	Throttle
5814112100	-	-
5814112600	-	-
5814112300	-	-
5814112400	-	-
5814112000	Basic valve without coil	-
5814113500	-	with throttle
5814113200	-	with throttle
5814113100	-	with throttle
5814113600	-	with throttle
5814113300	-	with throttle
5814113400	-	with throttle
5814113000	Basic valve without coil	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and $\Delta p = 1$ 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.

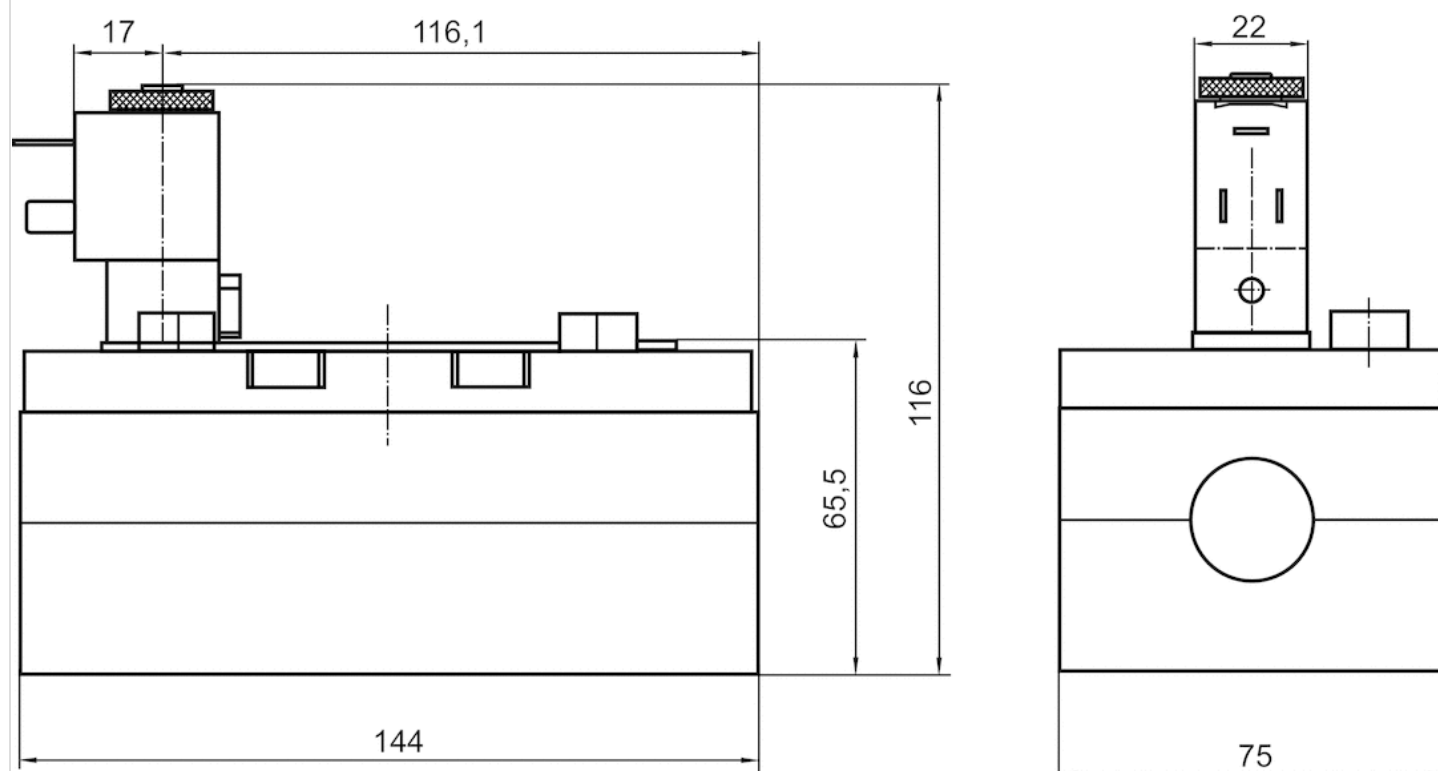
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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