

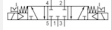
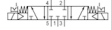
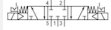
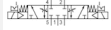
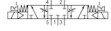
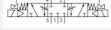
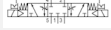
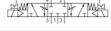
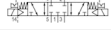
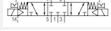
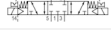
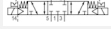
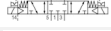
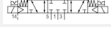
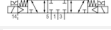
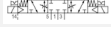
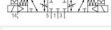
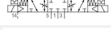
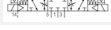
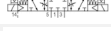
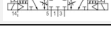
5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center
- closed center
- $Q_n = 5000 \text{ l/min}$
- 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	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	30 ms
Typ. switch-off time	74 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,44 kg

Technical data

Part No.		MO		Operational voltage DC
5814420500			closed center	12 V
5814420200			closed center	-
5814420100			closed center	24 V
5814420600			closed center	48 V
5814420300			closed center	-
5814420400			closed center	-
5814420000			closed center	-
5814421500			closed center	12 V
5814421200			closed center	-
5814421100			closed center	24 V
5814421600			closed center	48 V
5814421300			closed center	-
5814421400			closed center	-
5814421000			closed center	-
5814422500			closed center	12 V
5814422200			closed center	-
5814422100			closed center	24 V
5814422600			closed center	48 V
5814422300			closed center	-
5814422400			closed center	-
5814422000			closed center	-
5814423500			closed center	12 V
5814423200			closed center	-
5814423100			closed center	24 V
5814423600			closed center	48 V
5814423300			closed center	-
5814423400			closed center	-
5814423000			closed center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814420500	-	-	-10% / +10%
5814420200	24 V	-	-
5814420100	-	-	-10% / +10%
5814420600	-	-	-10% / +10%
5814420300	-	110 V	-
5814420400	230 V	-	-
5814420000	-	-	-
5814421500	-	-	-10% / +10%
5814421200	24 V	-	-
5814421100	-	-	-10% / +10%
5814421600	-	-	-10% / +10%
5814421300	-	110 V	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814421400	230 V	-	-
5814421000	-	-	-
5814422500	-	-	-10% / +10%
5814422200	24 V	-	-
5814422100	-	-	-10% / +10%
5814422600	-	-	-10% / +10%
5814422300	-	110 V	-
5814422400	230 V	-	-
5814422000	-	-	-
5814423500	-	-	-10% / +10%
5814423200	24 V	-	-
5814423100	-	-	-10% / +10%
5814423600	-	-	-10% / +10%
5814423300	-	110 V	-
5814423400	230 V	-	-
5814423000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5814420500	-	-	5 W	-
5814420200	-10% / +10%	-	-	8 VA
5814420100	-	-	5 W	-
5814420600	-	-	5 W	-
5814420300	-	-10% / +10%	-	-
5814420400	-10% / +10%	-	-	8 VA
5814420000	-	-	-	-
5814421500	-	-	5 W	-
5814421200	-10% / +10%	-	-	8 VA
5814421100	-	-	5 W	-
5814421600	-	-	5 W	-
5814421300	-	-10% / +10%	-	-
5814421400	-10% / +10%	-	-	8 VA
5814421000	-	-	-	-
5814422500	-	-	5 W	-
5814422200	-10% / +10%	-	-	8 VA
5814422100	-	-	5 W	-
5814422600	-	-	5 W	-
5814422300	-	-10% / +10%	-	-
5814422400	-10% / +10%	-	-	8 VA
5814422000	-	-	-	-
5814423500	-	-	5 W	-
5814423200	-10% / +10%	-	-	8 VA
5814423100	-	-	5 W	-
5814423600	-	-	5 W	-
5814423300	-	-10% / +10%	-	-
5814423400	-10% / +10%	-	-	8 VA

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5814423000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5814420500	-	-	-	Internal
5814420200	-	10 VA	-	Internal
5814420100	-	-	-	Internal
5814420600	-	-	-	Internal
5814420300	8 VA	-	10 VA	Internal
5814420400	-	10 VA	-	Internal
5814420000	-	-	-	Internal
5814421500	-	-	-	Internal
5814421200	-	10 VA	-	Internal
5814421100	-	-	-	Internal
5814421600	-	-	-	Internal
5814421300	8 VA	-	10 VA	Internal
5814421400	-	10 VA	-	Internal
5814421000	-	-	-	Internal
5814422500	-	-	-	External
5814422200	-	10 VA	-	External
5814422100	-	-	-	External
5814422600	-	-	-	External
5814422300	8 VA	-	10 VA	External
5814422400	-	10 VA	-	External
5814422000	-	-	-	External
5814423500	-	-	-	External
5814423200	-	10 VA	-	External
5814423100	-	-	-	External
5814423600	-	-	-	External
5814423300	8 VA	-	10 VA	External
5814423400	-	10 VA	-	External
5814423000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814420500	3 ... 10 bar	Plug Form B, industry
5814420200	3 ... 10 bar	Plug Form B, industry
5814420100	3 ... 10 bar	Plug Form B, industry
5814420600	3 ... 10 bar	Plug Form B, industry
5814420300	3 ... 10 bar	Plug Form B, industry
5814420400	3 ... 10 bar	Plug Form B, industry
5814420000	3 ... 10 bar	Plug Form B, industry
5814421500	3 ... 10 bar	Plug Form B, industry
5814421200	3 ... 10 bar	Plug Form B, industry
5814421100	3 ... 10 bar	Plug Form B, industry
5814421600	3 ... 10 bar	Plug Form B, industry
5814421300	3 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814421400	3 ... 10 bar	Plug Form B, industry
5814421000	3 ... 10 bar	Plug Form B, industry
5814422500	-0,95 ... 10 bar	Plug Form B, industry
5814422200	-0,95 ... 10 bar	Plug Form B, industry
5814422100	-0,95 ... 10 bar	Plug Form B, industry
5814422600	-0,95 ... 10 bar	Plug Form B, industry
5814422300	-0,95 ... 10 bar	Plug Form B, industry
5814422400	-0,95 ... 10 bar	Plug Form B, industry
5814422000	-0,95 ... 10 bar	Plug Form B, industry
5814423500	-0,95 ... 10 bar	Plug Form B, industry
5814423200	-0,95 ... 10 bar	Plug Form B, industry
5814423100	-0,95 ... 10 bar	Plug Form B, industry
5814423600	-0,95 ... 10 bar	Plug Form B, industry
5814423300	-0,95 ... 10 bar	Plug Form B, industry
5814423400	-0,95 ... 10 bar	Plug Form B, industry
5814423000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814420500	-	-
5814420200	-	-
5814420100	-	-
5814420600	-	-
5814420300	-	-
5814420400	-	-
5814420000	Basic valve without coil	-
5814421500	-	with throttle
5814421200	-	with throttle
5814421100	-	with throttle
5814421600	-	with throttle
5814421300	-	with throttle
5814421400	-	with throttle
5814421000	Basic valve without coil	with throttle
5814422500	-	-
5814422200	-	-
5814422100	-	-
5814422600	-	-
5814422300	-	-
5814422400	-	-
5814422000	Basic valve without coil	-
5814423500	-	with throttle
5814423200	-	with throttle
5814423100	-	with throttle
5814423600	-	with throttle
5814423300	-	with throttle
5814423400	-	with throttle
5814423000	Basic valve without coil	with throttle

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

Technical information

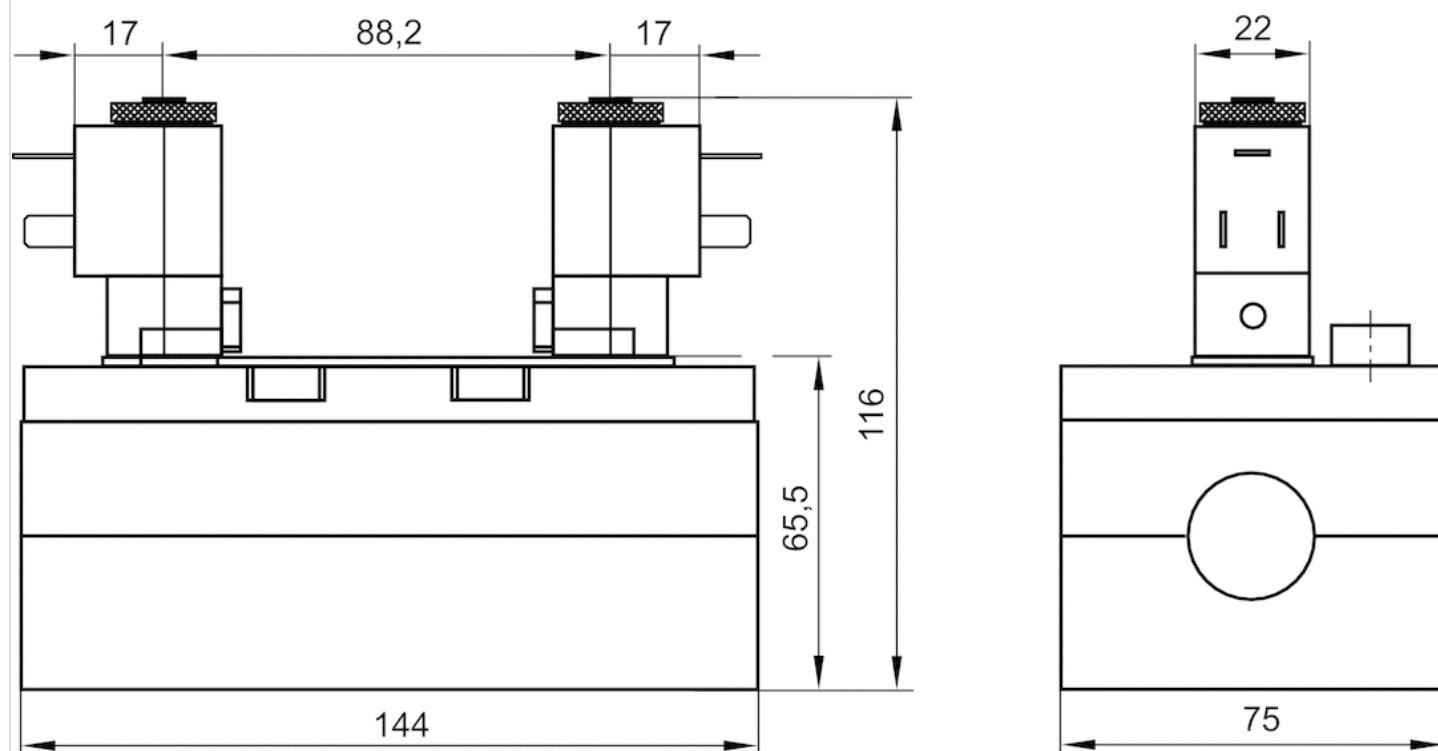
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

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



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