

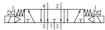
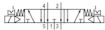
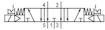
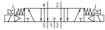
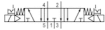
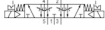
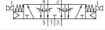
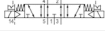
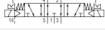
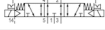
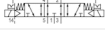
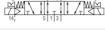
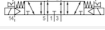
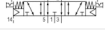
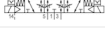
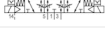
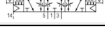
5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- exhausted center
- exhausted 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
5814520500			exhausted center	12 V
5814520200			exhausted center	-
5814520100			exhausted center	24 V
5814520600			exhausted center	48 V
5814520300			exhausted center	-
5814520400			exhausted center	-
5814520000			exhausted center	-
5814521500			exhausted center	12 V
5814521200			exhausted center	-
5814521100			exhausted center	24 V
5814521600			exhausted center	48 V
5814521300			exhausted center	-
5814521400			exhausted center	-
5814521000			exhausted center	-
5814522500			exhausted center	12 V
5814522200			exhausted center	-
5814522100			exhausted center	24 V
5814522600			exhausted center	48 V
5814522300			exhausted center	-
5814522400			exhausted center	-
5814522000			exhausted center	-
5814523500			exhausted center	12 V
5814523200			exhausted center	-
5814523100			exhausted center	24 V
5814523600			exhausted center	48 V
5814523300			exhausted center	-
5814523400			exhausted center	-
5814523000			exhausted center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814520500	-	-	-10% / +10%
5814520200	24 V	-	-
5814520100	-	-	-10% / +10%
5814520600	-	-	-10% / +10%
5814520300	-	110 V	-
5814520400	230 V	-	-
5814520000	-	-	-
5814521500	-	-	-10% / +10%
5814521200	24 V	-	-
5814521100	-	-	-10% / +10%
5814521600	-	-	-10% / +10%
5814521300	-	110 V	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814521400	230 V	-	-
5814521000	-	-	-
5814522500	-	-	-10% / +10%
5814522200	24 V	-	-
5814522100	-	-	-10% / +10%
5814522600	-	-	-10% / +10%
5814522300	-	110 V	-
5814522400	230 V	-	-
5814522000	-	-	-
5814523500	-	-	-10% / +10%
5814523200	24 V	-	-
5814523100	-	-	-10% / +10%
5814523600	-	-	-10% / +10%
5814523300	-	110 V	-
5814523400	230 V	-	-
5814523000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5814520500	-	-	5 W	-
5814520200	-10% / +10%	-	-	8 VA
5814520100	-	-	5 W	-
5814520600	-	-	5 W	-
5814520300	-	-10% / +10%	-	-
5814520400	-10% / +10%	-	-	8 VA
5814520000	-	-	-	-
5814521500	-	-	5 W	-
5814521200	-10% / +10%	-	-	8 VA
5814521100	-	-	5 W	-
5814521600	-	-	5 W	-
5814521300	-	-10% / +10%	-	-
5814521400	-10% / +10%	-	-	8 VA
5814521000	-	-	-	-
5814522500	-	-	5 W	-
5814522200	-10% / +10%	-	-	8 VA
5814522100	-	-	5 W	-
5814522600	-	-	5 W	-
5814522300	-	-10% / +10%	-	-
5814522400	-10% / +10%	-	-	8 VA
5814522000	-	-	-	-
5814523500	-	-	5 W	-
5814523200	-10% / +10%	-	-	8 VA
5814523100	-	-	5 W	-
5814523600	-	-	5 W	-
5814523300	-	-10% / +10%	-	-
5814523400	-10% / +10%	-	-	8 VA
5814523000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5814520500	-	-	-	Internal
5814520200	-	10 VA	-	Internal
5814520100	-	-	-	Internal
5814520600	-	-	-	Internal
5814520300	8 VA	-	10 VA	Internal
5814520400	-	10 VA	-	Internal
5814520000	-	-	-	Internal
5814521500	-	-	-	Internal
5814521200	-	10 VA	-	Internal
5814521100	-	-	-	Internal
5814521600	-	-	-	Internal
5814521300	8 VA	-	10 VA	Internal
5814521400	-	10 VA	-	Internal
5814521000	-	-	-	Internal
5814522500	-	-	-	External
5814522200	-	10 VA	-	External
5814522100	-	-	-	External
5814522600	-	-	-	External
5814522300	8 VA	-	10 VA	External
5814522400	-	10 VA	-	External
5814522000	-	-	-	External
5814523500	-	-	-	External
5814523200	-	10 VA	-	External
5814523100	-	-	-	External
5814523600	-	-	-	External
5814523300	8 VA	-	10 VA	External
5814523400	-	10 VA	-	External
5814523000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814520500	3 ... 10 bar	Plug Form B, industry
5814520200	3 ... 10 bar	Plug Form B, industry
5814520100	3 ... 10 bar	Plug Form B, industry
5814520600	3 ... 10 bar	Plug Form B, industry
5814520300	3 ... 10 bar	Plug Form B, industry
5814520400	3 ... 10 bar	Plug Form B, industry
5814520000	3 ... 10 bar	Plug Form B, industry
5814521500	3 ... 10 bar	Plug Form B, industry
5814521200	3 ... 10 bar	Plug Form B, industry
5814521100	3 ... 10 bar	Plug Form B, industry
5814521600	3 ... 10 bar	Plug Form B, industry
5814521300	3 ... 10 bar	Plug Form B, industry
5814521400	3 ... 10 bar	Plug Form B, industry
5814521000	3 ... 10 bar	Plug Form B, industry
5814522500	-0,95 ... 10 bar	Plug Form B, industry
5814522200	-0,95 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814522100	-0,95 ... 10 bar	Plug Form B, industry
5814522600	-0,95 ... 10 bar	Plug Form B, industry
5814522300	-0,95 ... 10 bar	Plug Form B, industry
5814522400	-0,95 ... 10 bar	Plug Form B, industry
5814522000	-0,95 ... 10 bar	Plug Form B, industry
5814523500	-0,95 ... 10 bar	Plug Form B, industry
5814523200	-0,95 ... 10 bar	Plug Form B, industry
5814523100	-0,95 ... 10 bar	Plug Form B, industry
5814523600	-0,95 ... 10 bar	Plug Form B, industry
5814523300	-0,95 ... 10 bar	Plug Form B, industry
5814523400	-0,95 ... 10 bar	Plug Form B, industry
5814523000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814520500	-	-
5814520200	-	-
5814520100	-	-
5814520600	-	-
5814520300	-	-
5814520400	-	-
5814520000	Basic valve without coil	-
5814521500	-	with throttle
5814521200	-	with throttle
5814521100	-	with throttle
5814521600	-	with throttle
5814521300	-	with throttle
5814521400	-	with throttle
5814521000	Basic valve without coil	with throttle
5814522500	-	-
5814522200	-	-
5814522100	-	-
5814522600	-	-
5814522300	-	-
5814522400	-	-
5814522000	Basic valve without coil	-
5814523500	-	with throttle
5814523200	-	with throttle
5814523100	-	with throttle
5814523600	-	with throttle
5814523300	-	with throttle
5814523400	-	with throttle
5814523000	Basic valve without coil	with throttle

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

Technical information

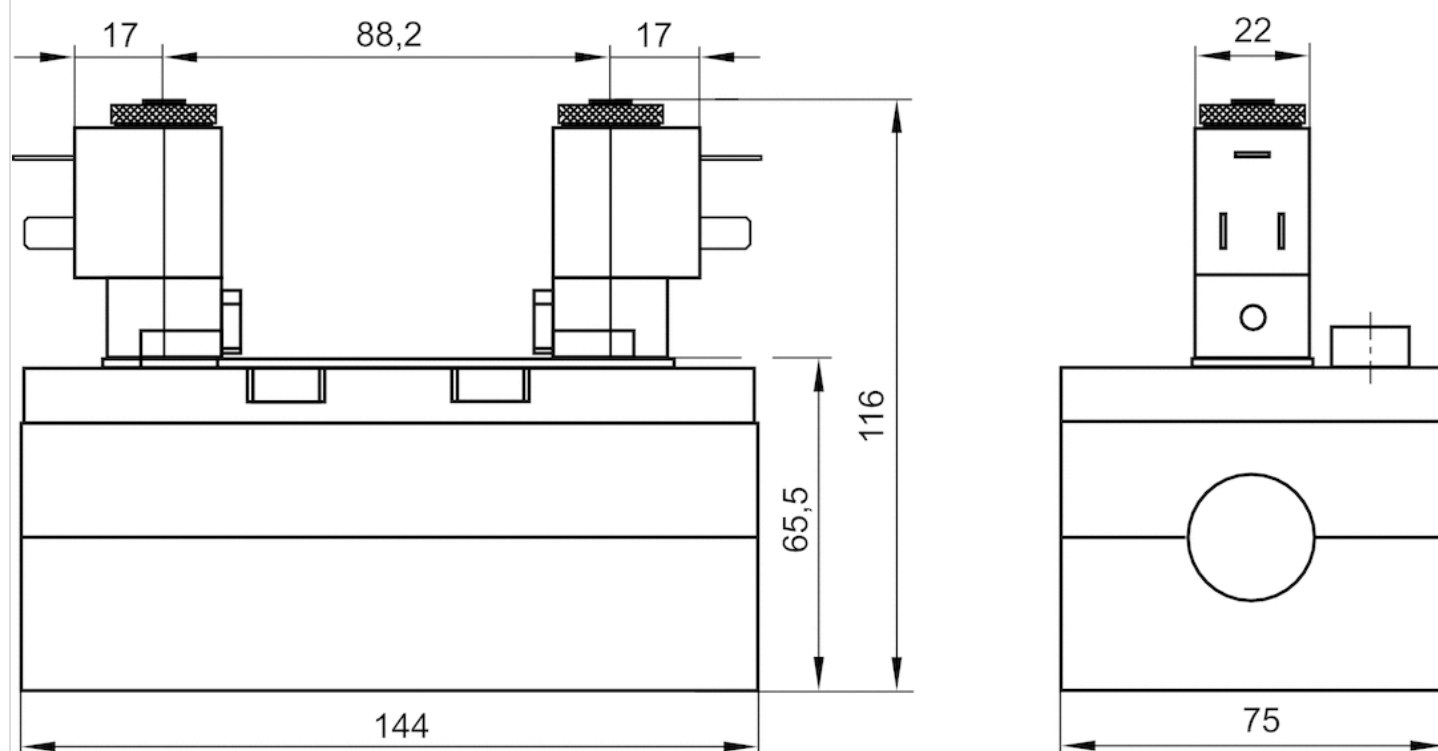
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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°.