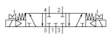
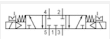
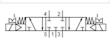
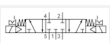
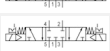
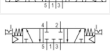
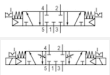
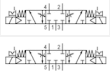
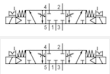
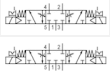
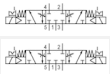
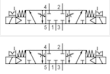
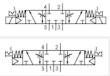
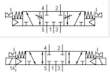
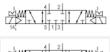
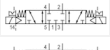
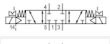
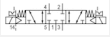
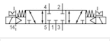
5/3-directional valve, Series 581, size 1

- ISO 5599-1
- ISO 1
- 5/3
- closed center
- Qn = 1100 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 1
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/m³
Nominal flow Qn	1100 l/min
Flow conductance C	4,3 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	29 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0,3 kg

Technical data

Part No.		MO		Operational voltage DC
5811420500			closed center	12 V
5811420200			closed center	-
5811420100			closed center	24 V
5811420600			closed center	48 V
5811420300			closed center	-
5811420400			closed center	-
5811420000			closed center	-
5811421500			closed center	12 V
5811421200			closed center	-
5811421100			closed center	24 V
5811421600			closed center	48 V
5811421300			closed center	-
5811421400			closed center	-
5811421000			closed center	-
5811422500			closed center	12 V
5811422200			closed center	-
5811422100			closed center	24 V
5811422600			closed center	48 V
5811422300			closed center	-
5811422400			closed center	-
5811422000			closed center	-
5811423500			closed center	12 V
5811423200			closed center	-
5811423100			closed center	24 V
5811423600			closed center	48 V
5811423300			closed center	-
5811423400			closed center	-
5811423000			closed center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5811420500	-	-	-10% / +10%
5811420200	24 V	-	-
5811420100	-	-	-10% / +10%
5811420600	-	-	-10% / +10%
5811420300	-	110 V	-
5811420400	230 V	-	-
5811420000	-	-	-
5811421500	-	-	-10% / +10%
5811421200	24 V	-	-
5811421100	-	-	-10% / +10%
5811421600	-	-	-10% / +10%
5811421300	-	110 V	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5811421400	230 V	-	-
5811421000	-	-	-
5811422500	-	-	-10% / +10%
5811422200	24 V	-	-
5811422100	-	-	-10% / +10%
5811422600	-	-	-10% / +10%
5811422300	-	110 V	-
5811422400	230 V	-	-
5811422000	-	-	-
5811423500	-	-	-10% / +10%
5811423200	24 V	-	-
5811423100	-	-	-10% / +10%
5811423600	-	-	-10% / +10%
5811423300	-	110 V	-
5811423400	230 V	-	-
5811423000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5811420500	-	-	5 W	-
5811420200	-10% / +10%	-	-	8 VA
5811420100	-	-	5 W	-
5811420600	-	-	5 W	-
5811420300	-	-10% / +10%	-	-
5811420400	-10% / +10%	-	-	8 VA
5811420000	-	-	-	-
5811421500	-	-	5 W	-
5811421200	-10% / +10%	-	-	8 VA
5811421100	-	-	5 W	-
5811421600	-	-	5 W	-
5811421300	-	-10% / +10%	-	-
5811421400	-10% / +10%	-	-	8 VA
5811421000	-	-	-	-
5811422500	-	-	5 W	-
5811422200	-10% / +10%	-	-	8 VA
5811422100	-	-	5 W	-
5811422600	-	-	5 W	-
5811422300	-	-10% / +10%	-	-
5811422400	-10% / +10%	-	-	8 VA
5811422000	-	-	-	-
5811423500	-	-	5 W	-
5811423200	-10% / +10%	-	-	8 VA
5811423100	-	-	5 W	-
5811423600	-	-	5 W	-
5811423300	-	-10% / +10%	-	-
5811423400	-10% / +10%	-	-	8 VA
5811423000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5811420500	-	-	-	Internal
5811420200	-	10 VA	-	Internal
5811420100	-	-	-	Internal
5811420600	-	-	-	Internal
5811420300	8 VA	-	10 VA	Internal
5811420400	-	10 VA	-	Internal
5811420000	-	-	-	Internal
5811421500	-	-	-	Internal
5811421200	-	10 VA	-	Internal
5811421100	-	-	-	Internal
5811421600	-	-	-	Internal
5811421300	8 VA	-	10 VA	Internal
5811421400	-	10 VA	-	Internal
5811421000	-	-	-	Internal
5811422500	-	-	-	External
5811422200	-	10 VA	-	External
5811422100	-	-	-	External
5811422600	-	-	-	External
5811422300	8 VA	-	10 VA	External
5811422400	-	10 VA	-	External
5811422000	-	-	-	External
5811423500	-	-	-	External
5811423200	-	10 VA	-	External
5811423100	-	-	-	External
5811423600	-	-	-	External
5811423300	8 VA	-	10 VA	External
5811423400	-	10 VA	-	External
5811423000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5811420500	3 ... 10 bar	Plug Form B, industry
5811420200	3 ... 10 bar	Plug Form B, industry
5811420100	3 ... 10 bar	Plug Form B, industry
5811420600	3 ... 10 bar	Plug Form B, industry
5811420300	3 ... 10 bar	Plug Form B, industry
5811420400	3 ... 10 bar	Plug Form B, industry
5811420000	3 ... 10 bar	Plug Form B, industry
5811421500	3 ... 10 bar	Plug Form B, industry
5811421200	3 ... 10 bar	Plug Form B, industry
5811421100	3 ... 10 bar	Plug Form B, industry
5811421600	3 ... 10 bar	Plug Form B, industry
5811421300	3 ... 10 bar	Plug Form B, industry
5811421400	3 ... 10 bar	Plug Form B, industry
5811421000	3 ... 10 bar	Plug Form B, industry
5811422500	-0,95 ... 10 bar	Plug Form B, industry
5811422200	-0,95 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5811422100	-0,95 ... 10 bar	Plug Form B, industry
5811422600	-0,95 ... 10 bar	Plug Form B, industry
5811422300	-0,95 ... 10 bar	Plug Form B, industry
5811422400	-0,95 ... 10 bar	Plug Form B, industry
5811422000	-0,95 ... 10 bar	Plug Form B, industry
5811423500	-0,95 ... 10 bar	Plug Form B, industry
5811423200	-0,95 ... 10 bar	Plug Form B, industry
5811423100	-0,95 ... 10 bar	Plug Form B, industry
5811423600	-0,95 ... 10 bar	Plug Form B, industry
5811423300	-0,95 ... 10 bar	Plug Form B, industry
5811423400	-0,95 ... 10 bar	Plug Form B, industry
5811423000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5811420500	-	-
5811420200	-	-
5811420100	-	-
5811420600	-	-
5811420300	-	-
5811420400	-	-
5811420000	Basic valve without coil	-
5811421500	-	with throttle
5811421200	-	with throttle
5811421100	-	with throttle
5811421600	-	with throttle
5811421300	-	with throttle
5811421400	-	with throttle
5811421000	Basic valve without coil	with throttle
5811422500	-	-
5811422200	-	-
5811422100	-	-
5811422600	-	-
5811422300	-	-
5811422400	-	-
5811422000	Basic valve without coil	-
5811423500	-	with throttle
5811423200	-	with throttle
5811423100	-	with throttle
5811423600	-	with throttle
5811423300	-	with throttle
5811423400	-	with throttle
5811423000	Basic valve without coil	with throttle

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

Technical information

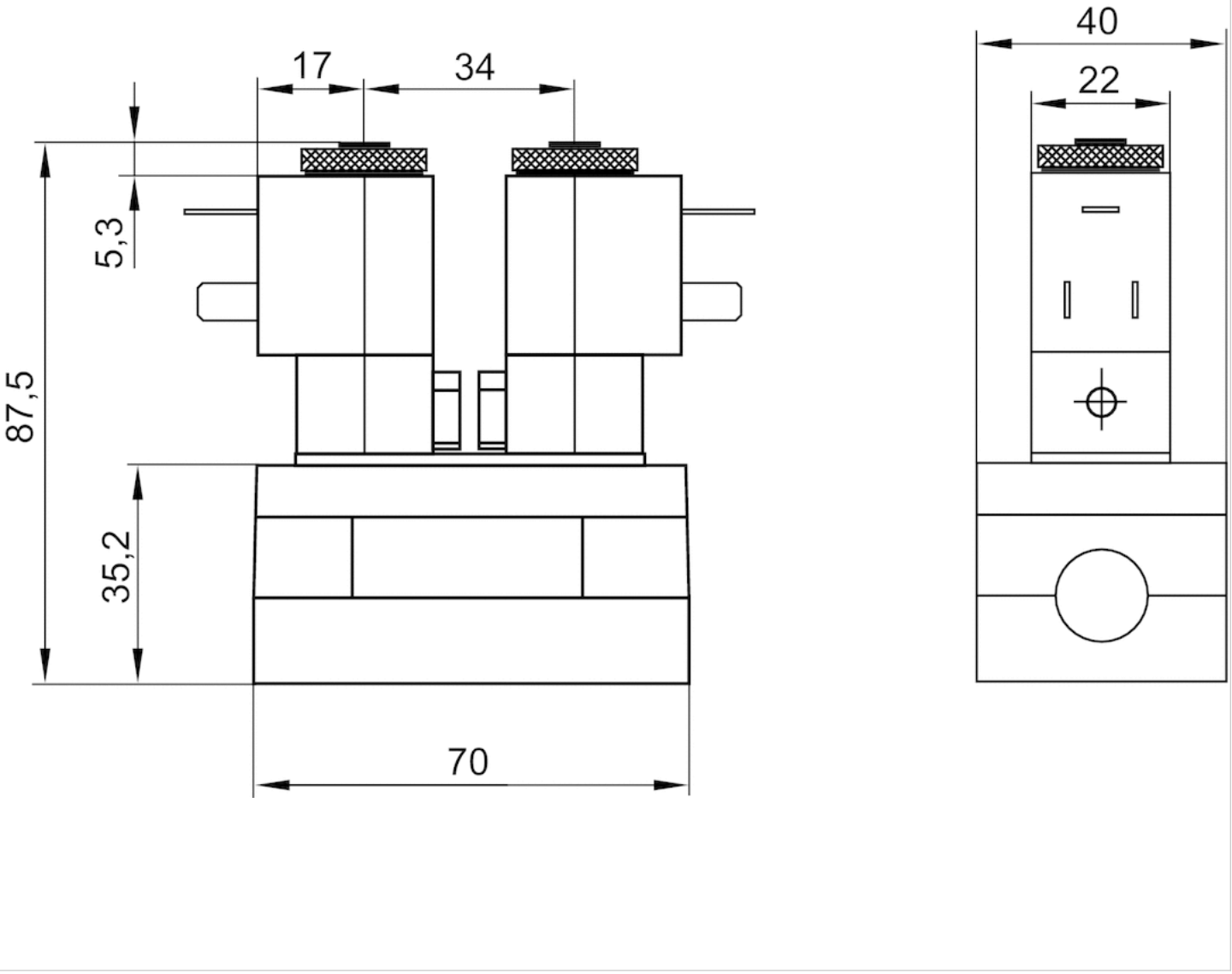
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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