

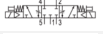
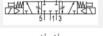
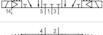
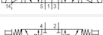
5/3-directional valve, Series 581, size 1

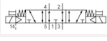
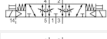
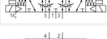
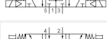
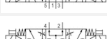
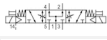
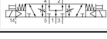
- ISO 5599-1
- ISO 1
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 1100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



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 ... 16 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	1100 l/min
Flow conductance C	4,3 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	28 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0,5 kg

Technical data

Part No.		MO		Operational voltage DC
5811490540			closed center	24 V
5811490440			closed center	-
5811491540			closed center	24 V
5811491440			closed center	-
5811492540			closed center	24 V
5811492440			closed center	-
5811493540			closed center	24 V
5811493440			closed center	-
5811590540			exhausted center	24 V
5811590440			exhausted center	-
5811591540			exhausted center	24 V
5811591440			exhausted center	-

Part No.		MO		Operational voltage DC
5811592540			exhausted center	24 V
5811592440			exhausted center	-
5811593540			exhausted center	24 V
5811593440			exhausted center	-
5811790540			pressurized center	24 V
5811790440			pressurized center	-
5811791540			pressurized center	24 V
5811791440			pressurized center	-
5811792540			pressurized center	24 V
5811792440			pressurized center	-
5811793540			pressurized center	24 V
5811793440			pressurized center	-

Part No.	Operational voltage AC 50 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz
5811490540	42 V	-10% / +10%	-10% / +10%
5811490440	230 V	-	-10% / +10%
5811491540	42 V	-10% / +10%	-10% / +10%
5811491440	230 V	-	-10% / +10%
5811492540	42 V	-10% / +10%	-10% / +10%
5811492440	230 V	-	-10% / +10%
5811493540	42 V	-10% / +10%	-10% / +10%
5811493440	230 V	-	-10% / +10%
5811590540	42 V	-10% / +10%	-10% / +10%
5811590440	230 V	-	-10% / +10%
5811591540	42 V	-10% / +10%	-10% / +10%
5811591440	230 V	-	-10% / +10%
5811592540	42 V	-10% / +10%	-10% / +10%
5811592440	230 V	-	-10% / +10%
5811593540	42 V	-10% / +10%	-10% / +10%
5811593440	230 V	-	-10% / +10%
5811790540	42 V	-10% / +10%	-10% / +10%
5811790440	230 V	-	-10% / +10%
5811791540	42 V	-10% / +10%	-10% / +10%
5811791440	230 V	-	-10% / +10%
5811792540	42 V	-10% / +10%	-10% / +10%
5811792440	230 V	-	-10% / +10%
5811793540	42 V	-10% / +10%	-10% / +10%
5811793440	230 V	-	-10% / +10%

Part No.	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz	Pilot
5811490540	6,7 W	7,7 VA	12 VA	Internal
5811490440	-	10,8 VA	15,2 VA	Internal
5811491540	6,7 W	7,7 VA	12 VA	Internal
5811491440	-	10,8 VA	15,2 VA	Internal

Part No.	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz	Pilot
5811492540	6,7 W	7,7 VA	12 VA	External
5811492440	-	10,8 VA	15,2 VA	External
5811493540	6,7 W	7,7 VA	12 VA	External
5811493440	-	10,8 VA	15,2 VA	External
5811590540	6,7 W	7,7 VA	12 VA	Internal
5811590440	-	10,8 VA	15,2 VA	Internal
5811591540	6,7 W	7,7 VA	12 VA	Internal
5811591440	-	10,8 VA	15,2 VA	Internal
5811592540	6,7 W	7,7 VA	12 VA	External
5811592440	-	10,8 VA	15,2 VA	External
5811593540	6,7 W	7,7 VA	12 VA	External
5811593440	-	10,8 VA	15,2 VA	External
5811790540	6,7 W	7,7 VA	12 VA	Internal
5811790440	-	10,8 VA	15,2 VA	Internal
5811791540	6,7 W	7,7 VA	12 VA	Internal
5811791440	-	10,8 VA	15,2 VA	Internal
5811792540	6,7 W	7,7 VA	12 VA	External
5811792440	-	10,8 VA	15,2 VA	External
5811793540	6,7 W	7,7 VA	12 VA	External
5811793440	-	10,8 VA	15,2 VA	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5811490540	3 ... 16 bar	Plug EN 175301-803, form A	-
5811490440	3 ... 16 bar	Plug EN 175301-803, form A	-
5811491540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811491440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811492540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811492440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811493540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811493440	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811590540	3 ... 16 bar	Plug EN 175301-803, form A	-
5811590440	3 ... 16 bar	Plug EN 175301-803, form A	-
5811591540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811591440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811592540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811592440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811593540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811593440	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811790540	3 ... 16 bar	Plug EN 175301-803, form A	-
5811790440	3 ... 16 bar	Plug EN 175301-803, form A	-
5811791540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811791440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811792540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811792440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811793540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811793440	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle

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

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.

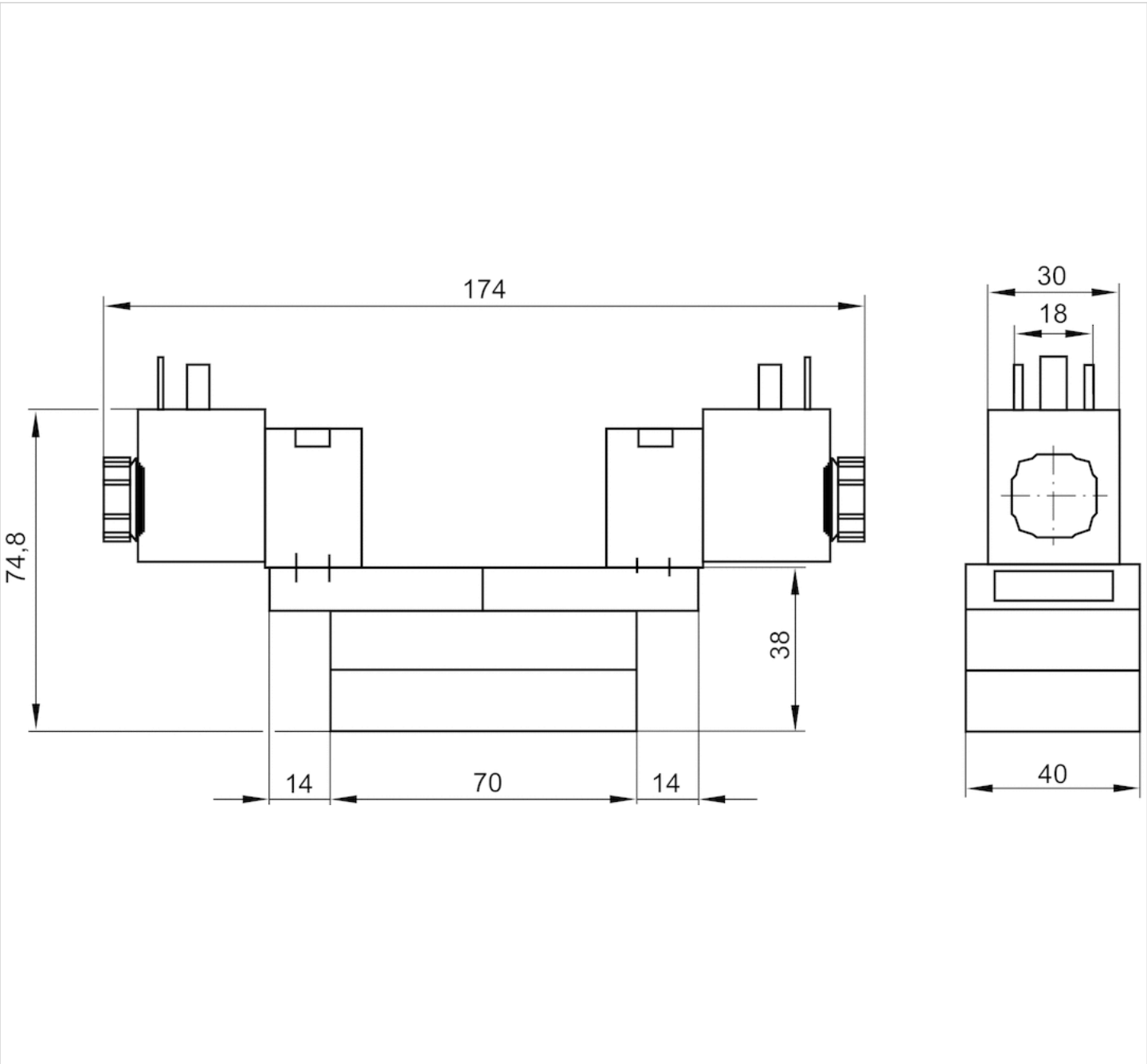
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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



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