5/2-directional valve, Series 581, size 3

- ISO 5599-1
- ISO 3
- 5/2
- With differential piston
- With air spring return
- Qn = 4800 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



Type Spool valve Sealing principle Soft sealing

Blocking principle Single base plate principle

Connection type Plate connection
Standards ISO 5599-1, ISO 3
Working pressure min./max. See table below
Control pressure min./max. 1,5 ... 10 bar
Ambient temperature min./max. -15 ... 50 °C

Medium temperature min./max. -15 ... 50 °C

Medium Compressed air

 $\label{eq:max_particle} \text{Max. particle size} \qquad \qquad 50 \ \mu\text{m}$ $\text{Oil content of compressed air} \qquad \qquad 0 \ ... \ 5 \ \text{mg/m}^3$

Nominal flow Qn 4800 l/min
Flow conductance C 18,9 l/(s*bar)

Protection class with connection IP65
Compatibility index 14

Duty cycle 100 %
Typ. switch-on time 24 ms
Typ. switch-off time 66 ms

Mounting screw with hexagon socket

Mounting screw tightening torque 10 Nm Weight 0,99 kg



Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
1	I 3	I		
5813670650			24 V	-
5813670450	4 2 3 3 1 3 1	<u> </u>	-	230 V
5813671650	4 2 3 3 1 3	<u>-</u>	24 V	-
5813671450	4 2 3 3 1 3 1	± E	-	230 V
5813672650		<u>-</u>	24 V	-
5813672450	7 1 2 2	<u>-</u>	-	230 V
5813673650	7 1 2	<u>-</u>	24 V	-
5813673450	# 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5813670650	-10% / +10%	-	2 W	-
5813670450	-	-10% / +10%	-	4,8 VA
5813671650	-10% / +10%	-	2 W	-
5813671450	-	-10% / +10%	-	4,8 VA
5813672650	-10% / +10%	-	2 W	-
5813672450	-	-10% / +10%	-	4,8 VA
5813673650	-10% / +10%	-	2 W	-
5813673450	-	-10% / +10%	-	4,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.	Compatibility index
5813670650	-	Internal	1,5 10 bar	14
5813670450	7 VA	Internal	1,5 10 bar	14
5813671650	-	Internal	1,5 10 bar	14
5813671450	7 VA	Internal	1,5 10 bar	14
5813672650	-	External	-0,95 10 bar	14
5813672450	7 VA	External	-0,95 10 bar	14
5813673650	-	External	-0,95 10 bar	14
5813673450	7 VA	External	-0,95 10 bar	14

Part No.	Electrical connection Pilot valve	Throttle
5813670650	Plug EN 175301-803, form A	-
5813670450	Plug EN 175301-803, form A	-
5813671650	Plug EN 175301-803, form A	with throttle
5813671450	Plug EN 175301-803, form A	with throttle
5813672650	Plug EN 175301-803, form A	-
5813672450	Plug EN 175301-803, form A	-
5813673650	Plug EN 175301-803, form A	with throttle
5813673450	Plug EN 175301-803, form A	with throttle

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override, An operating pressure of up to 16 bar is possible in the version with manual override without detent.



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).

Differential piston, signal 14 has priority

The minimum pilot pressure at port 14 is dependent on the pressure in port 1.

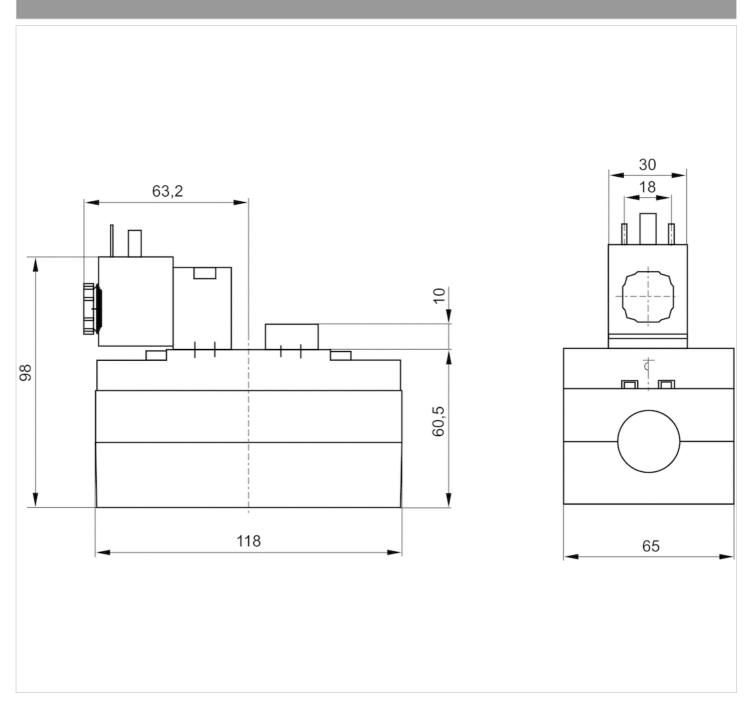
Technical information

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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