

5/2-directional valve, Series IS12, size 1

- ISO 5599-1
- ISO 1
- 5/2
- pilot valve with CNOMO porting configuration
- With air spring return With spring return
- single solenoid double solenoid
- Qn = 1060 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, positive overlapping
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.	See table below
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	1060 l/min
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M5 with hexagon socket
Mounting screw tightening torque	2,2 Nm
Weight	See table below

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
0820024950			-	-
0820024953			-	-
0820024951			-	-
0820024954			-	-
0820024952			-	-
0820024955			-	-
0820024960			-	-
0820024963			-	-
0820024961			-	-
0820024964			-	-
0820024962			-	-
0820024965			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820024001	230 V	-	-10% / +10%	-10% / +10%
0820024002	-	-10% / +10%	-	-
0820024003	24 V	-	-10% / +10%	-10% / +10%
0820024004	110 V	-	-10% / +10%	-10% / +10%
0820024006	-	-10% / +10%	-	-
0820024990	-	-	-	-
0820024980	-	-	-	-
0820024025	230 V	-	-10% / +10%	-10% / +10%
R422000002	230 V	-	-10% / +10%	-10% / +10%
0820024026	-	-10% / +10%	-	-
0820024027	24 V	-	-10% / +10%	-10% / +10%
0820024028	110 V	-	-10% / +10%	-10% / +10%
0820024035	-	-10% / +10%	-	-
0820024991	-	-	-	-
0820024981	-	-	-	-
0820024501	230 V	-	-10% / +10%	-10% / +10%
R422000003	230 V	-	-10% / +10%	-10% / +10%
0820024502	-	-10% / +10%	-	-
0820024503	24 V	-	-10% / +10%	-10% / +10%
0820024504	110 V	-	-10% / +10%	-10% / +10%
0820024510	-	-10% / +10%	-	-
0820024992	-	-	-	-
0820024984	-	-	-	-
0820024051	230 V	-	-10% / +10%	-10% / +10%
0820024052	-	-10% / +10%	-	-
0820024053	24 V	-	-10% / +10%	-10% / +10%
0820024054	110 V	-	-10% / +10%	-10% / +10%
0820024060	-	-10% / +10%	-	-
0820024993	-	-	-	-
0820024982	-	-	-	-
0820024075	230 V	-	-10% / +10%	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820024076	-	-10% / +10%	-	-
0820024077	24 V	-	-10% / +10%	-10% / +10%
0820024078	110 V	-	-10% / +10%	-10% / +10%
0820024085	-	-10% / +10%	-	-
0820024994	-	-	-	-
0820024983	-	-	-	-
0820024551	230 V	-	-10% / +10%	-10% / +10%
0820024552	-	-10% / +10%	-	-
0820024553	24 V	-	-10% / +10%	-10% / +10%
0820024554	110 V	-	-10% / +10%	-10% / +10%
0820024560	-	-10% / +10%	-	-
0820024995	-	-	-	-
0820024985	-	-	-	-
0820024950	-	-	-	-
0820024953	-	-	-	-
0820024951	-	-	-	-
0820024954	-	-	-	-
0820024952	-	-	-	-
0820024955	-	-	-	-
0820024960	-	-	-	-
0820024963	-	-	-	-
0820024961	-	-	-	-
0820024964	-	-	-	-
0820024962	-	-	-	-
0820024965	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820024001	-	8 VA	5,6 VA	11,5 VA
0820024002	4,5 W	-	-	-
0820024003	-	8 VA	5,6 VA	11,5 VA
0820024004	-	8 VA	5,6 VA	11,5 VA
0820024006	2,7 W	-	-	-
0820024990	-	-	-	-
0820024980	-	-	-	-
0820024025	-	8 VA	5,6 VA	11,5 VA
R422000002	-	2,3 VA	-	3 VA
0820024026	4,5 W	-	-	-
0820024027	-	8 VA	5,6 VA	11,5 VA
0820024028	-	8 VA	5,6 VA	11,5 VA
0820024035	2,7 W	-	-	-
0820024991	-	-	-	-
0820024981	-	-	-	-
0820024501	-	8 VA	5,6 VA	11,5 VA
R422000003	-	2,3 VA	-	3 VA
0820024502	4,5 W	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820024503	-	8 VA	5,6 VA	11,5 VA
0820024504	-	8 VA	5,6 VA	11,5 VA
0820024510	2,7 W	-	-	-
0820024992	-	-	-	-
0820024984	-	-	-	-
0820024051	-	8 VA	5,6 VA	11,5 VA
0820024052	4,5 W	-	-	-
0820024053	-	8 VA	5,6 VA	11,5 VA
0820024054	-	8 VA	5,6 VA	11,5 VA
0820024060	2,7 W	-	-	-
0820024993	-	-	-	-
0820024982	-	-	-	-
0820024075	-	8 VA	5,6 VA	11,5 VA
0820024076	4,5 W	-	-	-
0820024077	-	8 VA	5,6 VA	11,5 VA
0820024078	-	8 VA	5,6 VA	11,5 VA
0820024085	2,7 W	-	-	-
0820024994	-	-	-	-
0820024983	-	-	-	-
0820024551	-	8 VA	5,6 VA	11,5 VA
0820024552	4,5 W	-	-	-
0820024553	-	8 VA	5,6 VA	11,5 VA
0820024554	-	8 VA	5,6 VA	11,5 VA
0820024560	2,7 W	-	-	-
0820024995	-	-	-	-
0820024985	-	-	-	-
0820024950	-	-	-	-
0820024953	-	-	-	-
0820024951	-	-	-	-
0820024954	-	-	-	-
0820024952	-	-	-	-
0820024955	-	-	-	-
0820024960	-	-	-	-
0820024963	-	-	-	-
0820024961	-	-	-	-
0820024964	-	-	-	-
0820024962	-	-	-	-
0820024965	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Nominal resistance	Working pressure min./max.
0820024001	9,5 VA	Internal	2015 Ω	2 ... 10 bar
0820024002	-	Internal	128 Ω	2 ... 10 bar
0820024003	9,5 VA	Internal	23,3 Ω	2 ... 10 bar
0820024004	9,5 VA	Internal	530 Ω	2 ... 10 bar
0820024006	-	Internal	216 Ω	2 ... 10 bar
0820024990	-	Internal	-	2 ... 10 bar

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).

ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Technical information

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions

