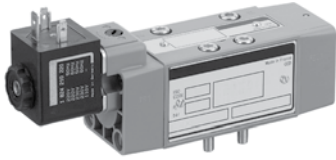


5/2-way valve, Series IS12

► Qn = 1060 l/min ► plate connection ► compressed air connection output: Base plate ISO 5599-1 ► Electr. connection: Plug, ISO 4400, form A ► Can be assembled into blocks ► Pilot: pilot valve with CNOMO porting configuration, axial version ► Manual override: without detent, with detent ► single solenoid, double solenoid



00107398

Standards	ISO 5599-1
Version	Spool valve, zero overlap
Pilot	internal
Sealing principle	soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Degree of protection with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Mounting screw	M5 with hexagon socket
mounting screw tightening torque	2.2 Nm
Weight	See table below
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber
Front plate	Polyamide

Technical Remarks

- 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 Bosch Rexroth, see chapter „Technical information“.
- 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.

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	11.5	9.5	8	5.6
24 V	-	-	-10% / +10%	-	-	4.5	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2.7	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	11.5	9.5	8	5.6
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	11.5	9.5	8	5.6

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	MO	Compressed air connection					Operating voltage			Hold- ing pow- er	Hold- ing pow- er	Part No.
		Input	Output	Exhaust	Pilot connec- tion	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz			
	=	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	24 V	24 V	8	5.6	0820024117
							24 V	-	-	-	-	0820024116
							24 V	-	-	-	-	0820024120
							-	110 V	110 V	8	5.6	0820024118
							230 V	230 V	8	5.6	0820024115	
	-	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	-	-	-	-	0820024976
	=	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	24 V	24 V	8	5.6	0820024142
							24 V	-	-	-	-	0820024141
							24 V	-	-	-	-	0820024145
							-	110 V	110 V	8	5.6	0820024143
							230 V	230 V	8	5.6	0820024140	
	-	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	-	-	-	-	0820024977
	=	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	24 V	24 V	8	5.6	0820024617
							24 V	-	-	-	-	0820024616
							24 V	-	-	-	-	0820024620
							-	110 V	110 V	8	5.6	0820024618
							230 V	230 V	8	5.6	0820024615	
	-	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	-	-	-	-	0820024978
	=	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	24 V	24 V	8	5.6	0820024103
							24 V	-	-	-	-	0820024102
							24 V	-	-	-	-	0820024110
							-	110 V	110 V	8	5.6	0820024104
							230 V	230 V	8	5.6	0820024101	
	-	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	-	-	-	-	0820024996
	=	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	24 V	24 V	8	5.6	0820024127
							24 V	-	-	-	-	0820024126
							24 V	-	-	-	-	0820024135
							-	110 V	110 V	8	5.6	0820024128
							230 V	230 V	8	5.6	0820024125	
	-	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	-	-	-	-	0820024997

5/2-way valve, Series IS12

► Qn = 1060 l/min ► plate connection ► compressed air connection output: Base plate ISO 5599-1 ► Electr. connection: Plug, ISO 4400, form A ► Can be assembled into blocks ► Pilot: pilot valve with CNOMO porting configuration, axial version ► Manual override: without detent, with detent ► single solenoid, double solenoid

	MO	Compressed air connection					Operating voltage			Hold- ing pow- er	Hold- ing pow- er	Part No.
		Input	Output	Exhaust	Pilot connec- tion	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz			
		Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	24 V	24 V	8	5.6	0820024603
							24 V	-	-	-	-	0820024602
							24 V	-	-	-	-	0820024610
							-	110 V	110 V	8	5.6	0820024604
							-	230 V	230 V	8	5.6	0820024601
	-	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	Base plate ISO 5599-1	-	-	-	-	-	0820024998

Part No.	Switch- on power	Switch- on power	Flow rate value	Nom- inal resis- tance	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note
	AC 50 Hz	AC 60 Hz	Qn							
			[l/min]		[bar]	[bar]	[ms]	[ms]	[kg]	
0820024117	11.5	9.5	23.3							-
0820024116	-	-	128							-
0820024120	-	-	1060	216	2 / 10	2 / 10	18	33	0.35	1)
0820024118	11.5	9.5	530							-
0820024115	11.5	9.5	2015							-
0820024976	-	-	1060	-	2 / 10	2 / 10	18	33	0.25	2); 3)
0820024142	11.5	9.5	23.3							-
0820024141	-	-	128							-
0820024145	-	-	1060	216	2.2 / 10	2.2 / 10	18	40	0.35	1)
0820024143	11.5	9.5	530							-
0820024140	11.5	9.5	2015							-
0820024977	-	-	1060	-	2.2 / 10	2.2 / 10	18	40	0.26	2); 3)
0820024617	11.5	9.5	23.3							-
0820024616	-	-	128							-
0820024620	-	-	1060	216	1 / 10	1 / 10	16	16	0.47	1)
0820024618	11.5	9.5	530							-
0820024615	11.5	9.5	2015							-
0820024978	-	-	1060	-	1 / 10	1 / 10	16	16	0.28	2); 3)
0820024103	11.5	9.5	23.3							-
0820024102	-	-	128							-
0820024110	-	-	1060	216	2 / 10	2 / 10	18	33	0.35	1)
0820024104	11.5	9.5	530							-
0820024101	11.5	9.5	2015							-
0820024996	-	-	1060	-	2 / 10	2 / 10	18	33	0.25	2); 3)

MO = Manual override

1) Low power consumption

2) Basic valve without coil

3) ATEX certified: II2G2DT4

Nominal flow Qn at 6 bar and Δp = 1 bar

5/2-way valve, Series IS12

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Part No.	Switch-on power	Switch-on power	Flow rate value	Nominal resistance	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note
	AC 50 Hz	AC 60 Hz	Qn							
			[l/min]		[bar]	[bar]	[ms]	[ms]	[kg]	
0820024127	11.5	9.5		23.3						-
0820024126	-	-		128						-
0820024135	-	-	1060	216	2.2 / 10	2.2 / 10	18	40	0.35	1)
0820024128	11.5	9.5		530						-
0820024125	11.5	9.5		2015						-
0820024997	-	-	1060	-	2.2 / 10	2.2 / 10	18	40	0.26	2); 3)
0820024603	11.5	9.5		23.3						-
0820024602	-	-		128						-
0820024610	-	-	1060	216	1 / 10	1 / 10	16	16	0.47	1)
0820024604	11.5	9.5		530						-
0820024601	11.5	9.5		2015						-
0820024998	-	-	1060	-	1 / 10	1 / 10	16	16	0.28	2); 3)

MO = Manual override

1) Low power consumption

2) Basic valve without coil

3) ATEX certified: II2G2DT4

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

5/2-way valve, Series IS12

► $Q_n = 1060 \text{ l/min}$ ► plate connection ► compressed air connection output: Base plate ISO 5599-1 ► Electr. connection: Plug, ISO 4400, form A ► Can be assembled into blocks ► Pilot: pilot valve with CNOMO porting configuration, axial version ► Manual override: without detent, with detent ► single solenoid, double solenoid

Dimensions

