

5/3-way valve, Series RA18

► Qn = 550 - 660 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 6952, form B ► Can be assembled into blocks ► double solenoid ► Service product



00108922

Version	Spool valve, zero overlap
Pilot	internal
Sealing principle	soft sealing
Blocking principle	Single base plate principle
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	+0 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 6952
Degree of protection with electrical connector/plug	See table below
Compatibility index	See table below
Duty cycle	100 %
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber
Front plate	Polyamide
Threaded bushing	Brass

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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

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	-	-	-10% / +10%	-	-	2.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	11	9.4	8.5	6.9
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	12	9.9	8.5	7.3
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	11	9.4	8.5	6.9

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	MO	Compressed air connection				Operating voltage			Hold- ing pow- er	Hold- ing pow- er	Switch- on power	Part No.	
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz					AC 50 Hz
		G 1/8	G 1/8	G 1/8	M5	24 V	-	-	-	-	-	0820034103	
						24 V	-	-	-	-	-	-	0820034102
						-	110 V	110 V	8.5	6.9	11	0820034105	
						-	24 V	24 V	8.5	7.3	12	0820034104	
						-	230 V	230 V	8.5	6.9	11	0820034101	
						-	-	-	-	-	-	-	0820034993
		G 1/8	G 1/8	G 1/8	M5	24 V	-	-	-	-	-	0820034003	
						24 V	-	-	-	-	-	-	0820034002
						-	110 V	110 V	8.5	6.9	11	0820034005	
						-	24 V	24 V	8.5	7.3	12	0820034004	
						-	230 V	230 V	8.5	6.9	11	0820034001	
						-	-	-	-	-	-	-	0820034990
		G 1/8	G 1/8	G 1/8	M5	-	24 V	24 V	8.5	7.3	12	0820034128	
						24 V	-	-	-	-	-	-	0820034126
						24 V	-	-	-	-	-	-	0820034127
						-	110 V	110 V	8.5	6.9	11	0820034129	
						-	230 V	230 V	8.5	6.9	11	0820034125	
						-	-	-	-	-	-	-	0820034994
		G 1/8	G 1/8	G 1/8	M5	-	24 V	24 V	8.5	7.3	12	0820034028	
						24 V	-	-	-	-	-	-	0820034026
						24 V	-	-	-	-	-	-	0820034027
						-	110 V	110 V	8.5	6.9	11	0820034029	
						-	230 V	230 V	8.5	6.9	11	0820034025	
						-	-	-	-	-	-	-	0820034991
		G 1/8	G 1/8	G 1/8	M5	-	24 V	24 V	8.5	7.3	12	0820034153	
						24 V	-	-	-	-	-	-	0820034151
						24 V	-	-	-	-	-	-	0820034152
						-	110 V	110 V	8.5	6.9	11	0820034154	
						-	230 V	230 V	8.5	6.9	11	0820034150	
						-	-	-	-	-	-	-	0820034995
		G 1/8	G 1/8	G 1/8	M5	-	24 V	24 V	8.5	7.3	12	0820034053	
						24 V	-	-	-	-	-	-	0820034051
						24 V	-	-	-	-	-	-	0820034052
						-	110 V	110 V	8.5	6.9	11	0820034054	
						-	230 V	230 V	8.5	6.9	11	0820034050	
						-	-	-	-	-	-	-	0820034992

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Part No.	Switch-on power	Flow rate value	Nominal resistance	Working pressure min./max.	Control pressure min./max.	Compatibility index	Protection class	Weight	Note
	AC 60 Hz	Qn							
		[l/min]		[bar]	[bar]			[kg]	
0820034103	-	550	223	2.5 / 7	2.5 / 7	13	IP 65	0.38	2)
0820034102	-		121	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034105	9.4		615	2.5 / 10	2.5 / 10	14	IP 65	0.38	2); 3)
0820034104	9.9		26	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034101	9.4		2450	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034993	-		-	2.5 / 10	2.5 / 10	14	-	0.26	1); 2)
0820034003	-	550	223	2.5 / 7	2.5 / 7	13	IP 65	0.38	-
0820034002	-		121	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034005	9.4		615	2.5 / 10	2.5 / 10	14	IP 65	0.38	3)
0820034004	9.9		26	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034001	9.4		2450	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034990	-		-	2.5 / 10	2.5 / 10	14	-	0.26	1)
0820034128	9.9	660	26	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034126	-		121	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034127	-		223	2.5 / 7	2.5 / 7	13	IP 65	0.38	2); 3)
0820034129	9.4		615	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034125	9.4		2450	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034994	-		-	2.5 / 10	2.5 / 10	14	-	0.26	1); 2)
0820034028	9.9	660	26	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034026	-		121	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034027	-		223	2.5 / 7	2.5 / 7	13	IP 65	0.38	3)
0820034029	9.4		615	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034025	9.4		2450	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034991	-		-	2.5 / 10	2.5 / 10	14	-	0.26	1)
0820034153	9.9	660	26	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034151	-		121	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034152	-		223	2.5 / 7	2.5 / 7	13	IP 65	0.38	2); 3)
0820034154	9.4		615	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034150	9.4		2450	2.5 / 10	2.5 / 10	14	IP 65	0.38	2)
0820034995	-		-	2.5 / 10	2.5 / 10	14	-	0.26	1); 2)
0820034053	9.9	660	26	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034051	-		121	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034052	-		223	2.5 / 7	2.5 / 7	13	IP 65	0.38	3)
0820034054	9.4		615	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034050	9.4		2450	2.5 / 10	2.5 / 10	14	IP 65	0.38	-
0820034992	-		-	2.5 / 10	2.5 / 10	14	-	0.26	1)

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

MO = Manual override

1) Basic valve without coil

2) with throttle

3) Low power consumption

