5/2-directional valve, Series 740

► Qn = 700 - 950 l/min ► pipe connection ► Compressed air connection output: Ø 8x1 - Ø 10x1 ► Electr. connection: Plug, EN 175301-803, form A ► with throttle ► Can be assembled into blocks ► Manual override: without detent, with detent ► single solenoid ► Pilot: internal



Version Sealing principle Blocking principle Mounting on manifold strip Working pressure min./max. Ambient temperature min./max. Medium temperature min./max. Medium Max. particle size Oil content of compressed air Nominal flow Qn Connector standard Protection class with connection Compatibility index Duty cycle Typ. switch-on time Typ. switch-off time Weiaht Materials:

Diaphragm poppet valve Soft sealing Single base plate principle, Plate principle PRS strip 2 bar / 10 bar -15°C/+50°C -15°C/+50°C Compressed air 50 µm 0 mg/m³ - 5 mg/m³ See table below EN 175301-803:2006 IP65 See table below 100 % 16 ms 36 ms See table below

AVENT

Polyarylamide; Polyoxymethylene Acrylonitrile Butadiene Rubber

Technical Remarks

■ The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

Housing

Seals

- 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, 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.

Operational voltage										Holding power	
C	C	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz		AC 60 Hz
							W	VA	VA	VA	VA
24	V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
	-	230 V	230 V	-	-20% / +10%	-10% / +20%	2.1	6.6	5.5	4.18	3.3
	-	-	-	-	-	-	2.1	-	-	-	-

2 AVENTICS

Directional valves ► Electrically operated

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	МО	Compressed air connection			Operating voltage			Po consump	wer tion	Hold- ing pow- er	Part No.	
		In	put	Outpu	Exhaust	DC	AC 50 Hz	AC 60 Hz		DC	AC 50 Hz	
										[W]	[VA]	
		ø	8x1	Ø 8x1	(1 (1 (1 (1 (1) (1) (1) (1) (1) (1) (1)	24 V	-	-		2.1	-	5727400220
		Ø	8x1	Ø 8x1		24 V	-	-			-	5727400420
. 41.21	I	Ø	8x1	Ø 8x1		24 V	-	-			-	5727420220
			10x1	Ø 10x1		24 V	-	-			-	5727450220
5 1 3	F		10x1	Ø 10x1		24 V	-	-			-	5727450420
			8x1	Ø 8x1		-	230 V	230 V			4.18	5727405280
			8x1	Ø 8x1		-	230 V	230 V			4.18	5727405480
			10x1	Ø 10x1		-	230 V	230 V			4.18	5727455280
		Ø 1	10x1	Ø 10x1		-	230 V	230 V			4.18	5727455480
		ø	8x1	Ø 8x1	M14x1	-	-	-		2.1	-	5727405302
5 1 3		Ø 1	10x1	Ø 10x1								5727455302
Part N	0.			Switch-on	Switch-o				Compatibility index		Weig	ht Note
			power power		powe		value					
		AC 60 Hz			AC 60 H					_		
57274002		[VA]	[AV]		[V <i>A</i>	[VA] [l/mir		10.14		[kg]		

	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn			
	[VA]	[VA]	[VA]	[l/min]		[kg]	
5727400220	-	-	-	700	13, 14	0.339	1); 4)
5727400420	-	-	-	700	13, 14	0.317	2); 4)
5727420220	-	-	-	700	13, 14	0.335	1); 4); 6)
5727450220	-	-	-	950	14, 14	0.341	1); 4)
5727450420	-	-	-	950	13, 14	0.318	2); 4)
5727405280	3.3	6.6	5.5	700	14	0.335	1); 4)
5727405480	3.3	6.6	5.5	700	14	0.311	2); 4)
5727455280	3.3	6.6	5.5	950	14	0.336	1); 4)
5727455480	3.3	6.6	5.5	950	14	0.311	2); 4)
5727405302				700	14	0.221	2). E)
5727455302	-	-	-	950	14	0.22	3); 5)

MO = Manual override

1) with electrical connector

2) without electrical connector

3) Basic valve without coil

4) Protected against polarity reversal

5) ATEX optional

6) ATEX certified: II 3G3D EEX nA IIB T4 IP65 T125 °C X

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

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3) el. connector can be rotated at 90° intervals

4) coil can be plugged at 45° intervals

5) throttle screw for exhausts 5 (R) and 3 (S) (S)

6) manual override and position indicator

Fig. 1: manual override:

manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment 1 - push only

actuation by tool: (3) with detent - remove segments up to II - push with tool and turn into position 1