

## Directional valves → Supplementary products

**5/2-way 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



00134324

Version	Diaphragm poppet valve
Pilot	internal
Sealing principle	soft sealing
Blocking principle	Single base plate principle, Plate principle
Mounting on manifold strip	PRS strip
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	EN 175301-803:2006
Degree of protection with electrical connector/plug	IP 65
Compatibility index	See table below
Duty cycle	100 %
Switch-on time	16 ms
Switch-off time	36 ms
Materials:	
Housing	Polyarylamide; Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

**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“.
- 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	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	2.1	6.6	5.5	4.18	3.3
-	-	-	-	-	-	2.1	-	-	-	-

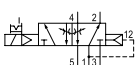

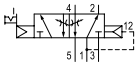

## Supplementary products

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information  
Pneumatics catalog, online PDF, as of 2012-11-16, © Bosch Rexroth AG, subject to change

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	MO	Compressed air connection			Operating voltage			Holding power	Holding power	Switch-on power		Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
		Ø 8x1	Ø 8x1	M14x1	24 V	-	-	-	-	-	-	5727400220
		Ø 8x1	Ø 8x1		24 V	-	-	-	-	-	-	5727400420
		Ø 8x1	Ø 8x1		24 V	-	-	-	-	-	-	5727420220
		Ø 10x1	Ø 10x1		24 V	-	-	-	-	-	-	5727450220
		Ø 10x1	Ø 10x1		24 V	-	-	-	-	-	-	5727450420
		Ø 8x1	Ø 8x1	-	230 V	230 V	4.18	3.3	6.6	5.5	5727405280	
		Ø 8x1	Ø 8x1	-	230 V	230 V	4.18	3.3	6.6	5.5	5727405480	
		Ø 10x1	Ø 10x1	-	230 V	230 V	4.18	3.3	6.6	5.5	5727455280	
		Ø 10x1	Ø 10x1	-	230 V	230 V	4.18	3.3	6.6	5.5	5727455480	
				Ø 8x1	Ø 8x1	M14x1	-	-	-	-	-	-
Ø 10x1	Ø 10x1			-	-		-	-	-	-	-	5727455302

Part No.	Flow rate value	Compatibility index	Weight	Note
	Qn			
	[l/min]		[kg]	
<b>5727400220</b>	700	13, 14	0.339	1); 4)
<b>5727400420</b>	700	13, 14	0.317	2); 4)
<b>5727420220</b>	700	13, 14	0.335	1); 4); 6)
<b>5727450220</b>	950	14, 14	0.341	1); 4)
<b>5727450420</b>	950	13, 14	0.318	2); 4)
<b>5727405280</b>	700	14	0.335	1); 4)
<b>5727405480</b>	700	14	0.311	2); 4)
<b>5727455280</b>	950	14	0.336	1); 4)
5727455480	950	14	0.311	2); 4)
<b>5727405302</b>	700	14	0.221	3); 5)
<b>5727455302</b>	950		0.22	

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

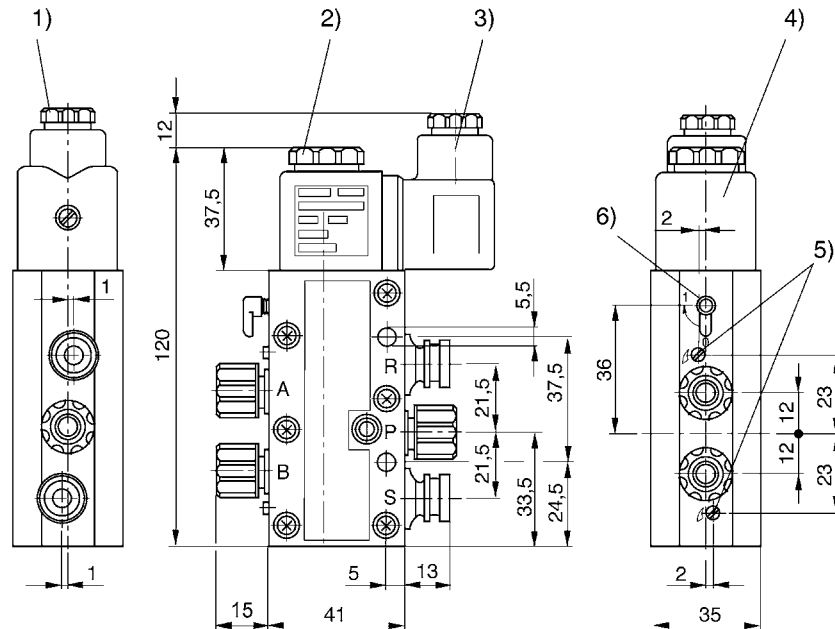
Nominal flow Qn at 6 bar and Δp = 1 bar

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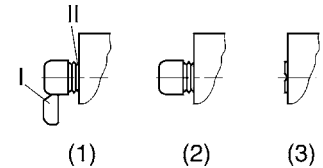
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## Dimensions



**Fig. 1**



- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 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:

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

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