



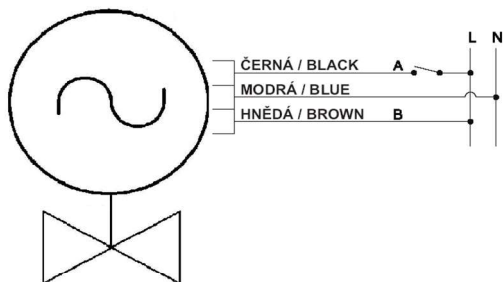
**LK 525 Zone Gate Valves**  
**- bidirectional actuator with single-pole control**

	<b>2-WAY VALVES</b>	<b>3-WAY VALVES</b>
		
<b>Main features</b>		
Application	heating or solar thermal systems	heating or solar thermal systems
Working fluids	water, water-glycol mixture (max. 1:1) or water-glycerine mixture (max. 2:1)	water, water-glycol mixture (max. 1:1) or water-glycerine mixture (max. 2:1)
Installation position	any, except for actuator facing downwards	any, except for actuator facing downwards
<b>Control</b>		
	single-pole	single-pole
De-energised	valve closed	outlet B open
Energised	valve open	outlet A open
Manual control	after removing actuator, turn valve stem to the desired position	after removing actuator, turn valve stem to the desired position
Valve shift time	12 s / 90°	8 s / 60°
<b>Valve data</b>		
Max. working pressure	1 MPa	1 MPa
Fluid working temperature	no adapter with adapter	
	5 to 80 °C, 90 °C in short term -15 to 120 °C, 160 °C in short term	5 to 80 °C, 90 °C in short term -15 to 120 °C, 160 °C in short term
Leakage rate	< 1 % K <sub>vs</sub> at Δp 100 kPa	< 1 % K <sub>vs</sub> at Δp 100 kPa
<b>Actuator data</b>		
Power supply	230 V 50 Hz	230 V 50 Hz
Power consumption	7 W	7 W
Current	30 mA	30 mA
IP rating	IP40 per EN 60529	IP40 per EN 60529
Protection class	II per EN 61140 ed.2	II per EN 61140 ed.2
Electromagnetic compatibility (EMC)	per EN 50130-4	per EN 50130-4
Ambient working temperature	1 to 60 °C	1 to 60 °C
Power cable cross section	3 x 0.75 mm <sup>2</sup>	3 x 0.75 mm <sup>2</sup>
Power cable length	1 m	1 m
<b>Materials</b>		
Valve body	forged brass	forged brass
Valve member (rotating element)	PPS	PPS
Valve spindle	PPS	PPS
Power cable	PVC	PVC

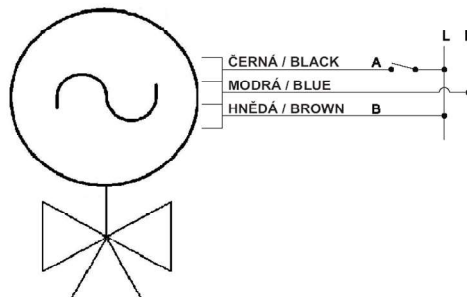
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**El. wiring**

2-way valves

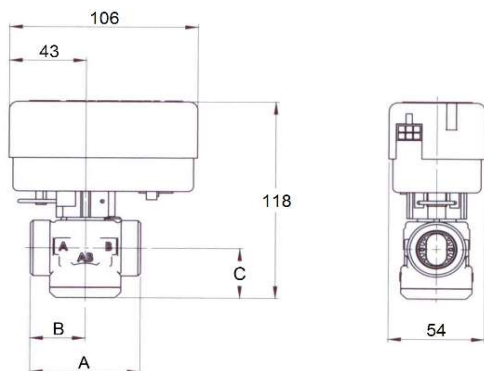


3-way valves

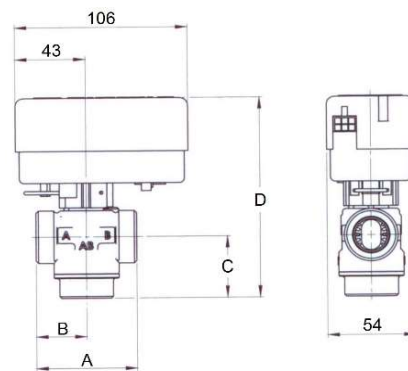


**Dimensions - outer thread**

2-way valves

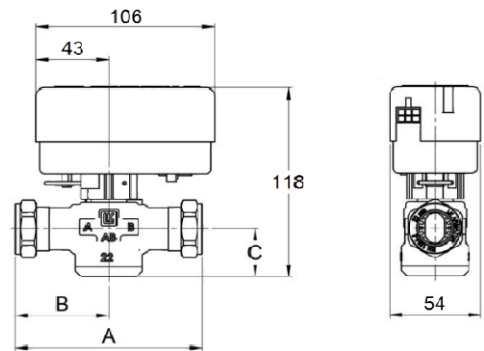


3-way valves

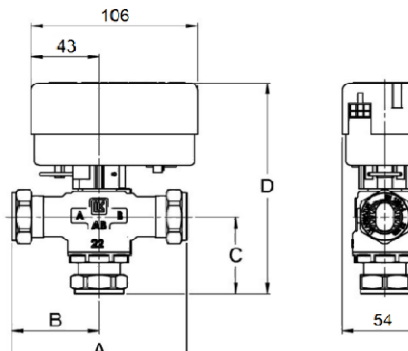


**Dimensions - compression fittings**

2-way valves



3-way valves



Parameter	Type	2-way valves				3-way valves			
		outer thread		compression fittings		outer thread		compression fittings	
Connection		G 1" M	G 5/4" M	Cu 22	Cu 28	G 1" M	G 5/4" M	Cu 22	Cu 28
Dimensions	A [mm]	62	74	110	110	62	74	110	110
	B [mm]	31	37	55	55	31	37	55	55
	C [mm]	30	30	30	30	39	40	50	54
	D [mm]	-	-	-	-	127	128	138	142
Weight	[kg]	0,6	0,6	0,4	0,6	0,6	0,6	0,4	0,6
K <sub>vs</sub>	[m <sup>3</sup> /h]	11	11	11	11	8	8	8	8
Max. pressure difference	[m H <sub>2</sub> O]	10	10	10	10	10	10	10	10
Code		16 283	16 284	14 896	14 897	11 284	11 285	14 883	14 884

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Pressure drop graph

