

### SERVO-CONTROLLED 3-WAY VACUUM SOLENOID VALVES WITH TWO ELECTRIC COILS

These solenoid valves have the same function and the same structure as the previously described three-way valves.

Even their structure is the same, but their distinctive features are the two coils that with a simple electric impulse exchange the shutter positions and keep them in this position till the next impulse even in absence of compressed air at the servo control and of electric current.

This is the reason why their use is especially recommended in all those cases requiring maximum connection security at the vacuum source, even in the absence of electrical and pneumatic power supply.

The standard electric coils are fully plastic-coated in synthetic resin, watertight, insulation class F (up to 155°C) as per standard VDE, with 6.3 mm three-terminal electrical connections for connectors in compliance with EN 175301-803 (ex DIN 43650). Protection degree IP 54; IP 65 with connector inserted. Tolerance permitted on the nominal voltage value: ±10%.

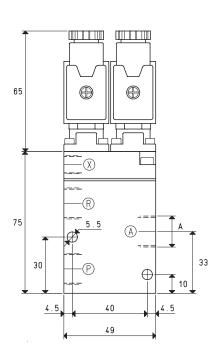
Maximum absorption: 8 - 20 V.A. with AC and 6.5 - 18 W with DC.

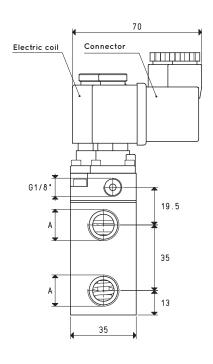
The electric coils can be rotated 180°. The connectors can be rotated 180° on the coils and can be supplied, upon request, with LED lights, anti-interference circuit and/or with protection devices against overvoltage and polarity reversal.

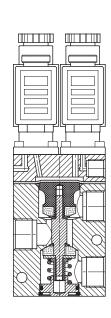
#### Technical features

Operating pressure: from 0.5 to 3000 absolute mbar Servo-control pressure: see table Temperature of suctioned fluid: from -5 to +60°C









NC	
	Α
0	R P

- X = Compressed air supply
- P = Pump
- A = Use

R = Discharge

NO	
	A R P

X = Compressed air supply

P = Discharge A = Use

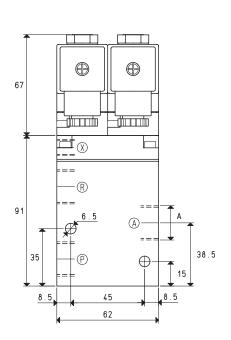
R = Pump

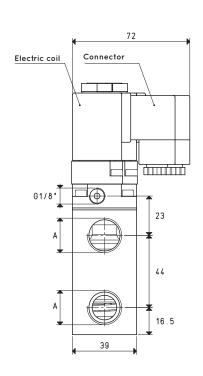
Item	A Max flow rate Level of vacuum abs. mbar			on time sec	Mouth	Cross-section of passage	Pressure at servo-controlled	Weight		
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²	bar	Kg
07 01 51	G1/4"	6	1000	0.5	16	27	8.5	56.8	4 ÷ 7	0.59
07 02 51	G3/8"	10	1000	0.5	16	27	11.5	103.8	4 ÷ 7	0.58

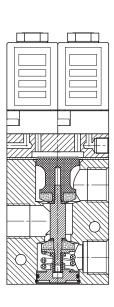
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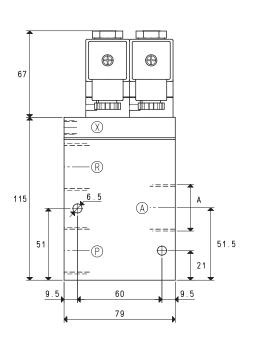
14	A Max flow rate Le			Level of vacuum abs. mbar		Reaction time		Cross-section of	Pressure at	Weight
Item	Ø	m³/h	min	max		sec de-energ.	Ø	<b>passage</b> mm²	servo-controlled *bar	Kg
07 03 51	G1/2"	20	1000	0.5	16	40	15.0	176	6 ÷ 8	0.97

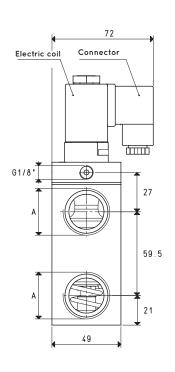
\* Add the letters LP to the item for servo-controlled pressures 4 - 6 bar.

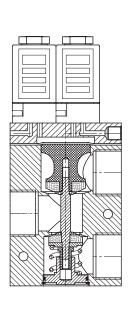


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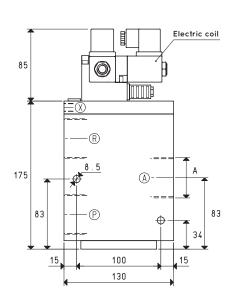
Item	A	Max flow rate	Level of abs.			on time sec	Mouth	Cross-section of passage	Pressure at servo-controlled	Weight
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²	*bar	Kg
07 04 51	G3/4"	40	1000	0.5	16	40	20	314	6 ÷ 8	1.51
07 05 51	G1"	90	1000	0.5	18	42	25	490	6 ÷ 8	1.41

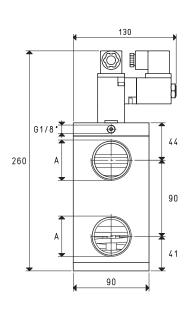
<sup>\*</sup> Add the letters LP to the item for servo-controlled pressures 4 - 6 bar.

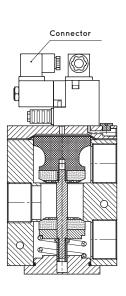
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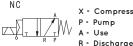












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P = Discharge A = Use R = Pump

Ī	Item				<b>Level of vacuum</b> abs. mbar		Reaction time msec		Cross-section of passage	Pressure at servo-controlled	Weight
		Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²	*bar	Kg
	07 06 51	G1" 1/2	230	1000	0.5	60	38	40	1256	6 ÷ 8	5.24

<sup>\*</sup> Add the letters LP to the item for servo-controlled pressures 4 - 6 bar.



## SERVO-CONTROLLED 3-WAY VACUUM SOLENOID VALVES WITH TWO ELECTRIC COILS, FOR LARGE CAPACITIES

The innovative construction technology of these solenoid valves and their conformation are the same as those previously described. What differentiates them are the two simple electrical impulse coils that exchange the shutter positions and keep them in position until the next impulse even in absence of compressed air at the servo control and of electric current. This is the reason why their use is especially recommended in all those cases requiring maximum connection security at the vacuum source, even in the absence of electrical and pneumatic power supply.

The standard electric coils of the actuator are fully plastic-coated in synthetic resin, watertight, insulation class F (up to 155°C) as per standard VDE, with 6.3 mm three-terminal electrical connections for connectors in compliance with EN 175301-803. Degree of protection IP 54;

IP 65 with connector inserted.

Tolerance permitted on the nominal voltage value: ±10%. Maximum absorption: 20 VA in AC and 18 W in DC.

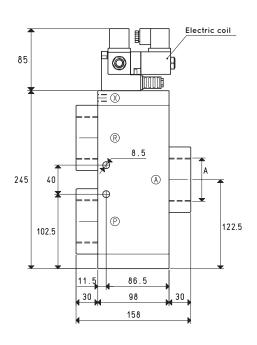
The electric coils can be rotated 180°, as well as the connectors, which can be supplied upon request with LED lights, with an anti-interference circuit and/or with protection devices against overvoltage and polarity reversal.

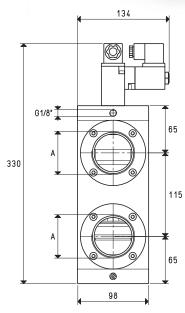
#### Technical features

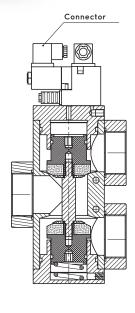
Operating pressure: from 0.5 to 1000 absolute mbar Servo-control pressure: from 4 to 8 bar

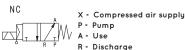
Temperature of suctioned fluid: from - 5 to + 60°C











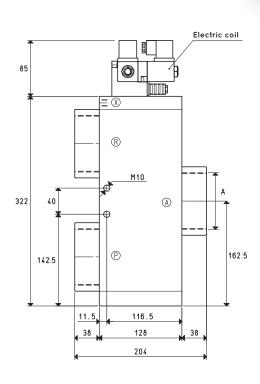
NO THE REP	X = Compressed air supply P = Discharge A = Use R = Pump
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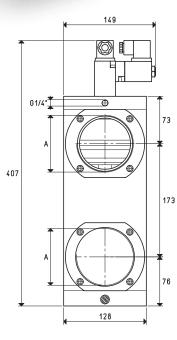
		Α	Max flow rate	Level of	Level of vacuum		Reaction time		Cross-section of	Pressure at	Weight
	Item			abs. mbar		m	msec		passage	servo-controlled	
		Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²	bar	Kg
	07 08 51	G2"	390	1000	0.5	78	50	52	2123	4 ÷ 8	6.0

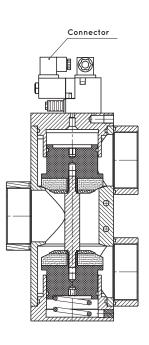
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	<b>/</b> _/W
0	R P

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		A Max flow rate Level of vacuu		vacuum	Reaction time Mou			Cross-section of	Pressure at	Weight	
	Item			abs. ı	mbar	m	sec		passage	servo-controlled	
		Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²	bar	Kg
	07 09 51	G3"	750	1000	0.5	132	84	80	5024	4 ÷ 8	11.8