

Troubleshooting

Malfunction	Possible cause	Please check
Leakage at T-port	<p>1) 3/2 NC, 2/2 NC untight P-poppet or 3/2 – NO untight T-poppet if valve is not switched</p> <p>Dirt inside the valve or poppet out of function.</p>	<p>ad 1) Open springcup, dismantle ball and clean the poppet. (not possible with 3/2 and 2/2 NO, then only dismantle the valve)</p> <p>or</p> <p>If valve is contaminated, dismantle cartridge, clean it and reassemble the valve.</p>
	<p>2) 3/2 NC untight T-poppet or 3/2 NO, 2/2 NO untight P-poppet if valve is switched</p> <p>Dirt inside the valve or poppet out of function.</p>	<p>ad 2) First try to adjust the valve acc. to the adjustment manual.</p> <p>If this does not help, dismantle the cartridge, clean it and reassemble the cartridge before readjusting it finally.</p> <p>If this does not help, use a new cartridge, assemble and adjust the valve.</p>
	<p>3) 3/2 NC, 2/2 NO “untight” although not switched, fluid exits T- port</p>	<p>ad 3) If fluid exits T-port, this could “pretend” leakage although valve is tight. Wait a few seconds to see if “leakage” stops. If it stops, no action is needed.</p>

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Valve does not switch	1) Solenoid a) No power connected b) plug mounted the wrong way c) Voltage incorrect d) confused (+) and (-) poles e) Solenoid out of order	ad 1) a) Check power source b) plug mounted correctly ? c) Voltage might vary +/- 10% from nominal voltage. d) check (+) and (-) poles. If the solenoid was connected to confused poles, check whether (existent) diodes are still OK. d) Remove solenoid from valve and check the stroke.
	2) Hydraulical or pneumatical actuator a) no pressure b) pressure too low	ad 2) a) check pressure source b) set pressure source to appropriate value.

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Valve does not switch back, remains in middle position	1) Flow too high	ad 1) Throttle the flow from P→A or from A→T
	2) Pressurized T-port if valve is piloted	ad 2) Check pressure in T-port ≤ 10 bar is OK, If valve is of Eex ia type, make sure pressure in T-port is down to 0 bar
	3) contamination	ad 3) Refer to “Leakage at T-port”
Valve is switched, but no flow or malfunction	1) P-line out of function	ad 1) a) Is the valve pressurized? b) Is the right pressure line connected to the valve ?
	2) Additional hydraulic components upstream / downstream	ad 2) If the system is pressureless, upstream components to the valve might be out of function.
	3) Valve is mounted the wrong way on its manifold	ad 3) make sure the valve is mounted the right direction on the manifold. Refer to installation manual and connect P to the P-port, A to the A-port.

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malfunction	Possible cause	Please check
<p>Valve is switched, flow is insufficient</p>	<p>1) Too little flow</p>	<p>ad 1) Is the flow P→A or A→T throttled ? THEN: If additional orifice is plugged inside one of the ports (P or T), please remove OR Choose for a bigger valve size</p>