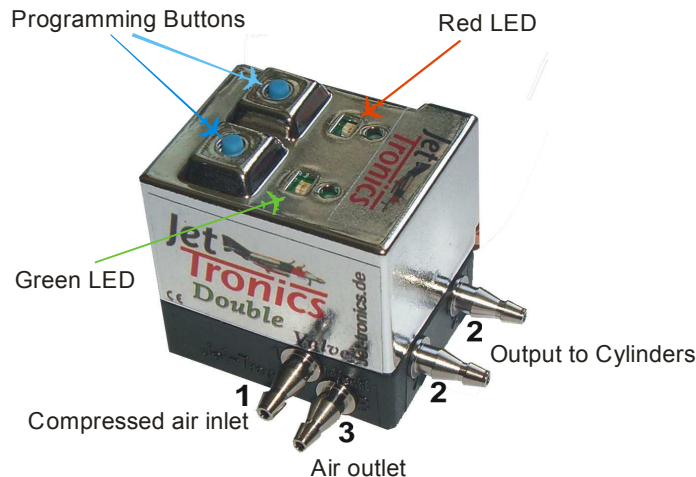


Jd-Valve



Manual Dual-Valve

With Speed Control Function and Air-failsafe function



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This **NEW** ultra-light Jet-Tronics JD-Valve has three additional functions to the normal Double valve.

1. Speed Control Function

IN and OUT speed of the units can be electronically throttled in both directions independently. This prevents the gear slamming against the fuselage and/or wing. The throttle action starts strongly at the beginning and reduces at the end of the throttle time. This causes an even speed movement of the gear.

2. Air-Failsafe-Function

About 90% of air leaks occur between valve and cylinders because this is where the highest error sources exist. (Junctions, connections between fuselage to wing and cylinders). In units that lock mechanically, there is no need to keep the system pressurised. This reduces the chance of lost pressure, so full pressure is available for delivering the gear IN or OUT again. If this option is chosen the valve shuts off the pressure after 15sec, which is enough time for most units to operate.

3. Manual Operation

Just in case the transmitter is not available it is possible to activate the valve manually.

Adjusting switching point

Important: Valve must be in Normal Mode (Delivery condition) or a **RESET** has to be done.

1. Switch on transmitter/receiver.
2. Transmitter function to undercarriage "OUT" (down) position.
3. Press the button on the valve that has the light "ON" for at least 0.5 seconds.
(This is dependent on which way the cylinder tubes are connected to outputs (2) of the valve)
4. Transmitter function to undercarriage "IN".
5. Press the other button for at least 0.5 seconds.
6. Test the function.

Programming of Speed Control Function

Functionality:

Controlling the operating speed is achieved by pulsed backpressure (**Pulse With Modulation**) at the air outlet site of the cylinders.

Advantage:

- No mechanical restriction needed.
- The restriction is separately adjustable for gear IN and OUT
- During the adjustable restriction time the throttling is modulated between maximum to minimum value. This means that the pressure starts at low value and increase linear to the maximum pressure, like it is required for the gear.

The adjusted throttling time is not synchronised to the travelling time of the gear but has of course an influence on it. This also depends on the type of gear.

Programming:

Activating Throttle function:

- Keep Button of green LED pressed during turning on the receiver. Standard time = 3 seconds

Adjust throttling time:

- Pushing button of green LED = 1 second more (**GREEN = + 1**)
- Pushing button of red LED = 1 second less (**RED = - 1**)

The throttling time, which will be adjusted, is that to the momentary position of the gear.

For example: To change the throttling time of gear out, you have to be in the out position and vice versa.

The standard throttling time is 3seconds for both directions.

The throttle function can only work correctly if the lengths of the tubes from the T-connectors to the cylinders have equal length.

Programming Air-Failsafe-Function

- Valve must be in Normal Mode. (RESET or delivery state)
- Keep RED LIGHT Button pressed during turning on receiver.
- Valve will shut off 15 seconds after actuating gear.
- In the Throttle-Function-Mode the time will be added to the throttle time.

Manual Actuator

1. Push both buttons for more then 0,5sec when the receiver is on.
After that you can actuate the valves by pressing the appropriate button.

Attention: The valve is now not working by the transmitter anymore.

After turning the receiver off and on again, the normal function will be available again.

Reset function:

Press both buttons longer then 0.5 seconds during power up. The switching point will return to the middle of used function.

Technical data:

Supply voltage	3,5V..7.5V
Current consumption	100mA bei 5V
Pressure range	0 – 10 Bar
Measurements	34x28x29 mm L/B/H
Weight	32 gr
Connection:	Universal connectors from 2.5 to 4mm outside diameter

Remark: The noise, which the valve produces, arises from current reduction and is normal.

Attention:

Do not cut tubes with a knife it could cause leakage. Use side cutter instead.