

M-Valve

3/2 Way Pneumaticvalve

Pressluft- Eingang

Connectiondiagram:

LED shows if Output is active/ zeigt ob Ausgang aktiv

Taster zum Einlernen des Schaltpunktes/ Button for teach in of switching point

Compressed air Input/ Air outlet/ Luftablaß

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Output to one way Zylinders or wheelbrakes/ Ausgang zu Einwegzylindern oder Radbremsen

This valve is attached directly to the receiver to control undercarriages with spring loaded single acting cylinders and wheel brakes with proportional function (PWM). (Pre selected mode: brake function)

It replaces the mechanical valve AND the servo plus linkage:

- The bottom measurements without connections are smaller than those of usual mechanical valves (L = 28 mm, B = 16 mm) in which the room is dropped for servo and linkage. The height is 29 mm.
- The connections consist of high-quality metal fast connections for tubes with 3 mm of outside • diameter.
- The speed of delivering in and out of the undercarriage can be throttled. This happens by using restrictors which are attached at output 3.
- In the off condition the valve is closed. When operating, the open position is indicated by a • LED.
- The remember function prevents that the undercarriage unintentionally works, if the transmitter function should be in an other position as on shutdown.
- The current consumption of 100 mA at 5 volts is by 50% lower than at the usual 1 watt valves.
- The air throughput is around 40% higher and therefore very well suitable also for big • undercarriages.
- Viton gaskets make the valve resistant to most oil sorts. •
- For braking, the minimum brake point can be set so that the wheels start braking at 10% of the functions travel.
- The point at which the brakes should be full on can be set to 90% of the functions travel.
- These adjustments give a nearly linear braking function for usual non-linear mechanical wheel • brakes.
- The pulse modulated brake function needs air but there is no loss on full braking.



Adjustments

(Important for all adjustments: All button sequences must carried out within 2 seconds)

Toggle mode of operation:

- Hold button pressed.
- Turn receiver on.
- Wait 2 Seconds, release button.

Adjusting switching point or travel of braking range:

- Switch on transmitter/receiver.
- Transmitter function to undercarriage "OUT" or brake "OPEN".
- Push button 1 x and wait 2 seconds.
- Transmitter function to undercarriage "IN" or brake "CLOSED".
- Push button 2 x and wait 2 seconds.
- Check function.

Prerequisite for the following steps is the filling of the system with compressed air and the check of the tightness.

Adjusting minimal brake point:

- Move transmitters function so far, till the brakes just start working.
- Push button 3 x and wait 2 seconds.
- Check function.

Adjusting maximal brake point:

- Move transmitters function so far, till the brakes are nearly at the 100% braking point.
- Push button 4 x and wait 2 seconds.
- Check function.

To change any tought in point, a reset must be carried out:

- Push button 5 x within 2 seconds and wait 2 seconds.
- Repeat all steps above.

The so taught in points remain saved also after turning the receiver power supply off.

Technical data:

Supply voltage	3,5V7.5V
Current consumption	100mA bei 5V
Pressure range	0 – 10 Bar
Measurements	30x16x29 mm L/B/H
Weight	18 gr
Connection:	Universal Nipples for all usual tubes

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

Attention:

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

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