

Linkage kit for VSB-VMB valves (2/3-way PN16 Valve Bodies)

MOUNTING POSITIONS

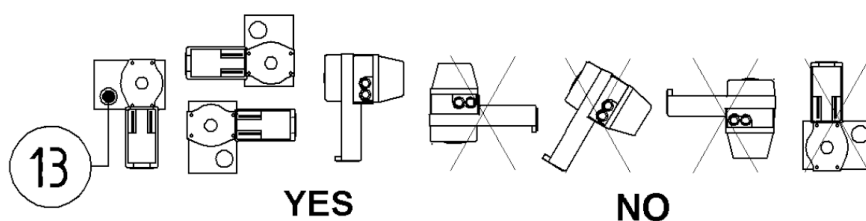


Fig. 1

PRELIMINARY OPERATIONS

- Two 12 mm, one 13 mm and (for MVLA and MVLC) one 10 mm C-spanners are required;
- insert the spacer **(2)** on the valve stem placed with the hollow side downwards;
- screw down completely joint **(1)** on the valve stem holding it up;
- using a 12 mm spanner hold joint **(1)**, while with the other 12 mm spanner force counter-clockwise the joint end **(1a)** until it detaches from the rest of the joint (acting as a locknut); thus locking it to the valve stem;
- screw locknut **(4)** on the threaded part of joint **(1)**.

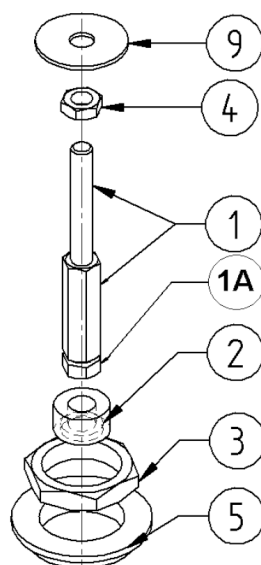


Fig. 2

MVL..A

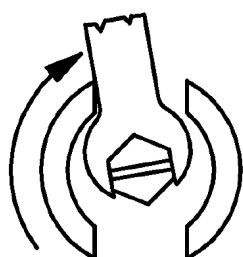


Fig. 3

MVL..C

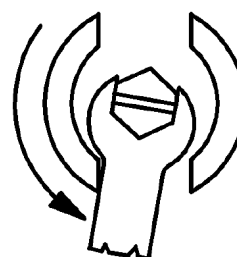


Fig. 4

The performances stated in this sheet can be modified without any prior notice.

- Make sure the plug reaches lower seat by acting on the joint (1) end;
- using the actuator manual control knob (13) (Fig. 1) bring the rack at the level of the lower reference (7) located on the bracket;
- place the actuator on the valve interposing the ring nut (5) and the locking nut (3) between the valve stem and the bracket;
- fit the indicator disk (9) (Fig. 2) into the M8 threaded part of joint (1);
- insert the joint assembled on the valve into the M8 hole located on rack (6) and rotate the actuator until the bracket reaches the valve neck; in case this does not occur, screw the joint further to do so;
- tighten the ring nut (5) with the locking nut (3);
- make sure the indicator disk (9) previously mounted under the rack corresponds to the lower reference (7) located on the bracket.
- tighten locknut (4) (13 mm spanner) on the indicator disk (9), holding the hexagonal part of joint (1);
- place the first movable indicator (8) near the indicator disk (9).

MVL-MVL..C

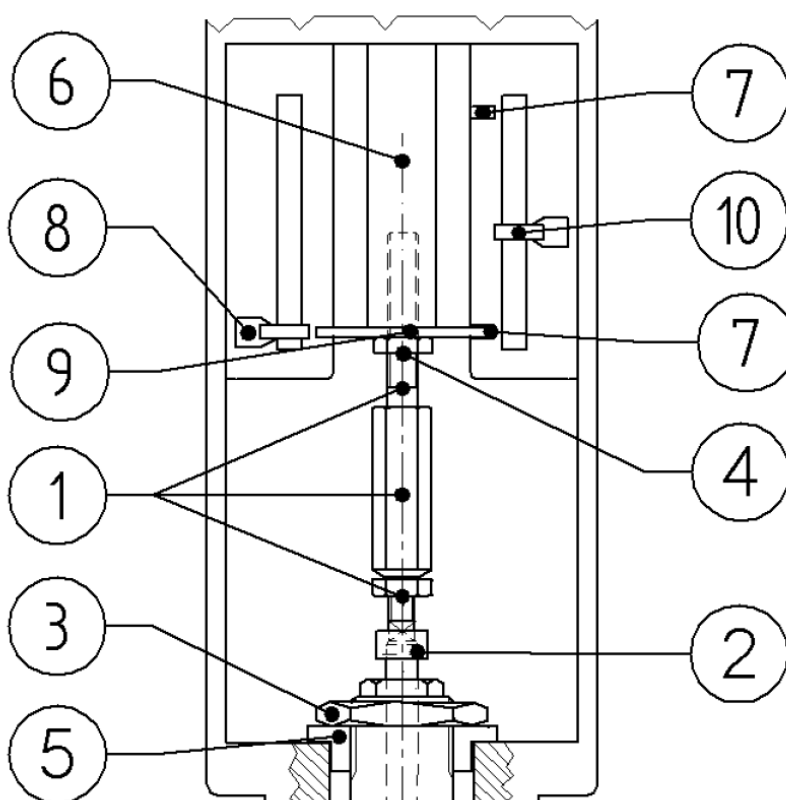


Fig. 5

MVL..C ACTUATOR ASSEMBLING (Fig. 5)

- Make sure the plug reaches lower seat;
- position the actuator on the valve interposing ring nut (5) and locking nut (3) between the valve stem and the bracket;
- fit the indicator disk (9) (Fig. 2) into the M8 threaded part of joint (1);
- insert the joint assembled on the valve into the M8 hole located on the rack (6) and rotate the actuator until the bracket reaches the valve neck;
- remove the actuator cover (13) (Fig. 1); turn the knob pivot **counter-clockwise** about half-turn using the 10 mm spanner and lock it in such position by inserting the spanner rod into the apposite notch located on the actuator cover (Fig. 4);
- rotate the actuator until the bracket reaches the valve neck; in case this does not occur, screw the joint (12 mm spanner) further until the result is achieved;
- during these operations pay particular attention to the spanner in the manual control: it must remain in the apposite notch (Fig. 4);
- turn further until it is evident that, by removing the spanner from the notch, the manual control pivot is steady. Then tighten ring nut (5) using locking nut (3);
- tighten locknut (4) (13 mm spanner) on the indicator disk (9) holding the hexagonal part of joint (1). Remove the spanner previously inserted into the manual control pivot;
- place the first movable indicator (8) at the level of the indicator disk (9).

- Lift the valve stem until the plug reaches the upper seat by acting on the lower end of joint (1);
- place the actuator on the valve stem interposing ring nut (5) and locking nut (3) between the valve stem and the bracket;
- insert the indicator disk (9) (Fig. 2) into the threaded part M8 of joint (1);
- remove the actuator cover (13) (Fig. 1), rotate **clockwise** the manual control pivot about half-turn (10 mm spanner), lock it in such position by inserting the spanner rod into the apposite notch on the cover (Fig. 3);
- insert the joint assembled on the valve into the M8 threaded hole on the rack (6) and then rotate the actuator until the bracket reaches the valve neck: the actuator can be oriented in the required position. Turn counter-clockwise (12 mm spanner) the joint hexagonal part, taking care after each turn, that by removing the spanner from the notch, the manual control pivot remains steady;
- tighten ring nut (5) using locking nut (3);
- tighten locknut (4) (13 mm spanner) on the indicator disk (9) holding the hexagonal part of joint (1);
- remove the spanner previously inserted into the manual control notch;
- place the first movable indicator (8) at the level of the indicator disk (9).

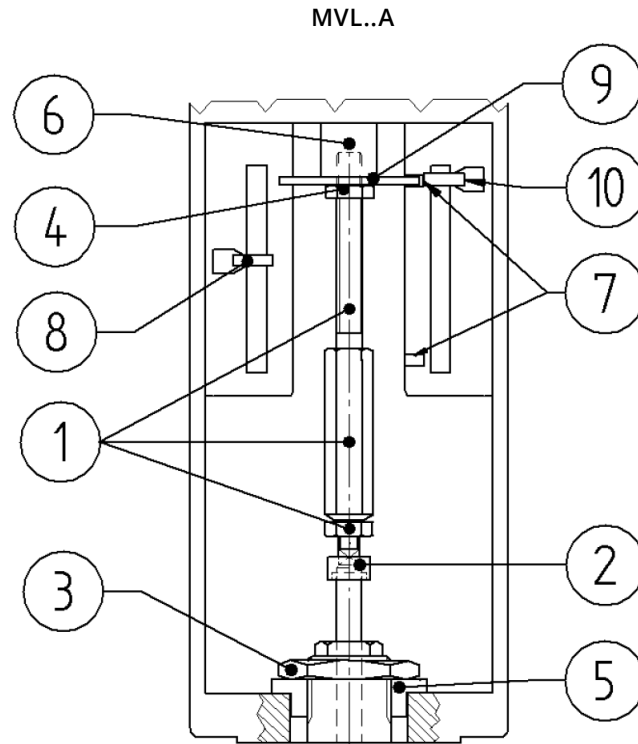


Fig. 6

CALIBRATION

- Remove the cover;
 - **MVL2/4/6-MVL2/4C**: supply the actuator with rated voltage between N-Y1;
 - **MVL2/4A**: supply the actuator with rated voltage between N-Y2;
 - **MVL3** and **MVL5**: using a screwdriver, act on the notches located on the two potentiometer shafts, turning counter-clockwise the right potentiometer and clockwise the left one up to their mechanical stop. Supply the actuator with rated voltage between L1 and L2 with M, V+ and Y terminals disconnected;
- wait until the actuator completes its stroke;
- place the second movable indicator (10) at the level of indicator disk (9).