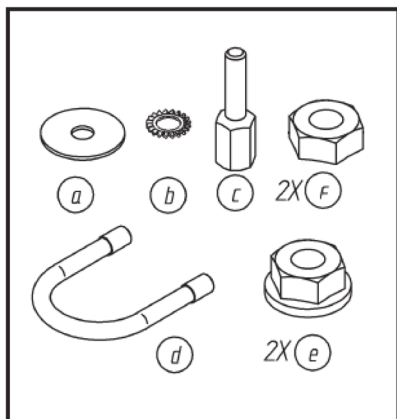


MOUNTING INSTRUCTIONS



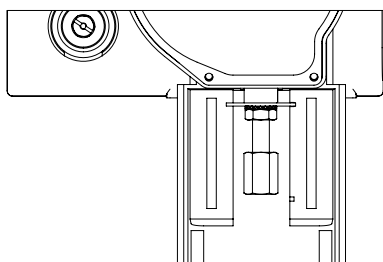
Hot media hazard. Before removing actuator from valve or opening the valve, ensure that the valve control medium is isolated and remove the pressure. Work must only be carried out by a competent engineer.



Attention:
Do not use the actuator disassembled from the valve.

For MVH26/36/46/56/66

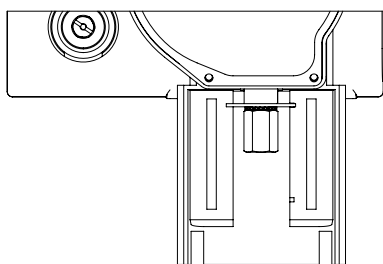
1



For valves from DN15 up to DN65

- Lower the valve stem;
- lock the stem extension (c) on the rack completely retracted placing the indicator disk (a), the jagged washer (b) and the nut (f) positioned half of the extension itself.

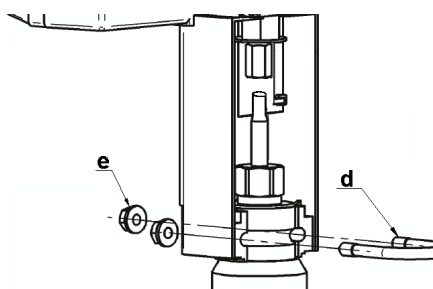
1a



For valves from DN80 up to DN200

- Lower the valve stem;
- lock the stem extension (c) on the rack completely retracted placing the indicator disk (a) and the jagged washer (b).

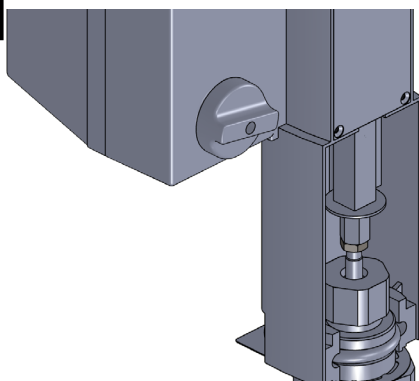
2



- Assemble the actuator to the valve by U-bolt (d) and the two nuts (e) without locking the nuts.

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

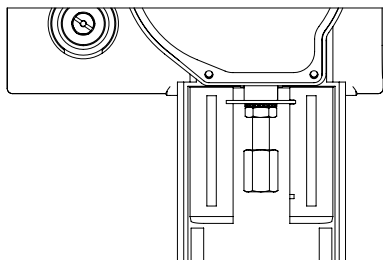
3



- By rotating the manual override knob, lower the stem extension until it reaches the valve stem, then rotate the actuator to screw the stem into the extension. Tighten the locknut on the stem and lock the two nuts on the U-bolt.

For MVH36A

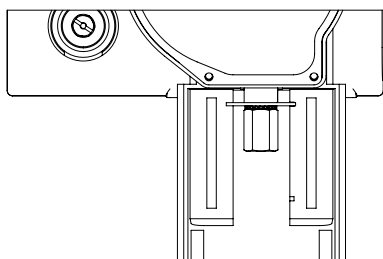
1



For valves from DN15 up to DN65

- Rise the valve stem;
- lock the stem extension **(c)** on the rack completely retracted placing the indicator disk **(a)**, the jagged washer **(b)** and the nut **(f)** positioned half of the extension itself.

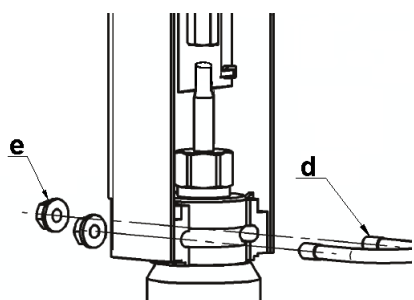
1a



For valves from DN80 up to DN200

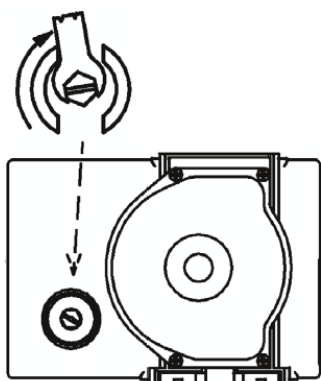
- Rise the valve stem;
- lock the stem extension **(c)** on the rack completely retracted placing the indicator disk **(a)** and the jagged washer **(b)**.

2



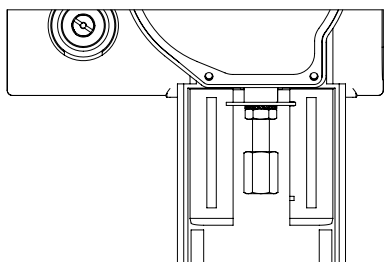
- Assemble the actuator to the valve by U-bolt **(d)** and the two nuts **(e)** without locking the nuts.

3



- Raise the valve stem;
- remove the cover and rotate the pivot clockwise so that the rack comes out for assembling it with the valve stem; the pivot can be locked by a spanner as shown in the picture;
- rotate the actuator to screw the extension on the valve stem, so lock it tightening the nut on the stem;
- tighten the two nuts on the U-bolt to lock the actuator;
- remove the key from the pivot and mount the small cap.

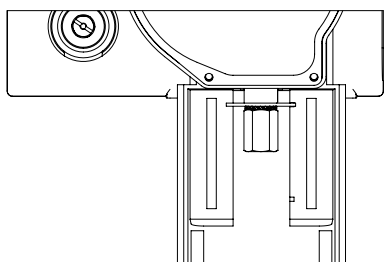
1



For valves from DN15 up to DN65

- Lower the valve stem;
- lock the stem extension (c) on the rack completely extended placing the indicator disk (a), the jagged washer (b) and the nut (f) positioned half of the extension itself.

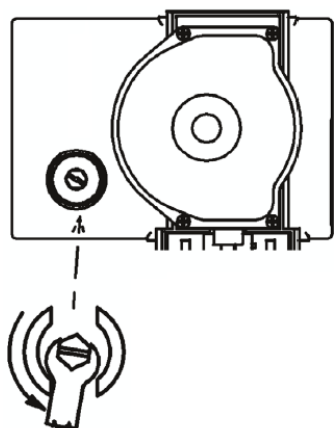
1a



For valves from DN80 up to DN200

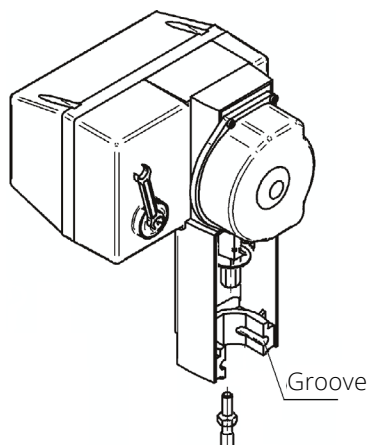
- Lower the valve stem;
- lock the stem extension (c) on the rack completely extended placing the indicator disk (a) and the jagged washer (b).

2



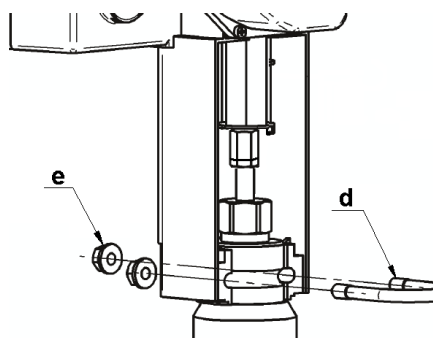
- Remove the cover;
- rotate the pivot 1/2 turn counter-clockwise and lock it by a spanner as shown in the picture.

3



- Screw the extension on the valve stem until the groove on the actuator base coincides with the one on the valve, then lock the extension tightening the nut on the stem. In case the two bases do still not coincide, rotate the pivot until it happens.

4

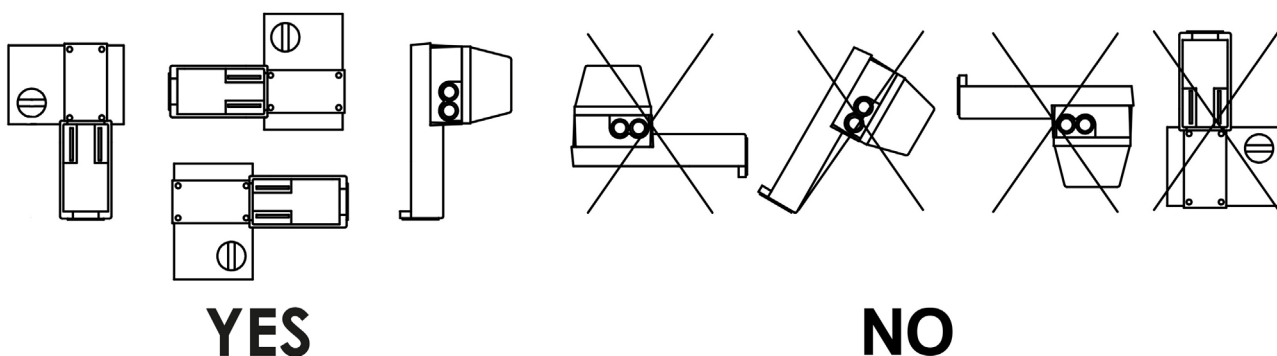


- Assemble the actuator to the valve by U-bolt **(d)** and the two nuts **(e)** without locking the nuts.

ACTUATOR STROKE CALIBRATION (only for MVH36/56)

- Loosen the locking screws located on the cover and put it off;
- using a screwdriver, turn **counter-clockwise** the right potentiometer and **clockwise** the left one up to their mechanical stop;
- acting on the manual knob, as shown in Fig. 3, bring the indicator disk to both stroke ends and position the related adjustable indicators.

MOUNTING POSITIONS



YES

NO

ELECTRICAL CONNECTIONS

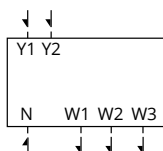
Perform the connections in compliance with existing rules and using max 2,5 mm² cross section wires.

Follow the instructions by using wire terminals on power supply wires in order to prevent accidental contacts between cables at different voltages in case of wrong installation.

On the power supply line install a protection device compliant to existing rules with a 125 mA intervention threshold and a minimum 3 mm contact opening. The device is not supplied with the product.

TERMINAL BOARDS

MVH26 (230 V AC) MVH46 (24 V AC)

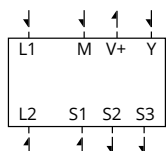


Power supply control | N-Y1 (**)
N-Y2 (***)

(**) Joint moves upwards
(***) Joint moves downwards

W1 Auxiliary potentiometer
W2
W3

MVH36/56 (24 V AC)



L1 Phase | 24 V~ ±10%
L2 Neutral | power supply

M Common
V+ +15 V Output
Y Control signal (2)

S1 Analogue common
S2 Feedback 0-10 V or 0-200 uA
S3 Feedback 10-0 V or 200-0 uA

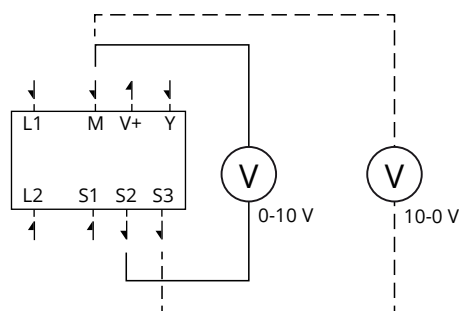
(1)

(2)

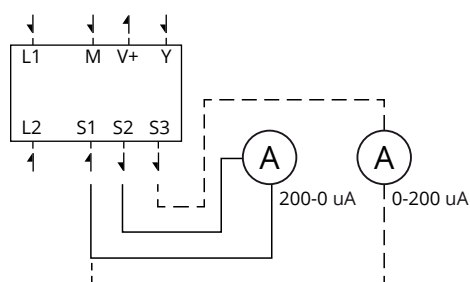
(1) For the model MVH36. Connect the central of the controller potentiometer (165 Ohm) to terminal Y, one side to terminal M and the other one to terminal V+.

(2) Connect the current input receiving the feedback to S2 (or S3) and S1 (max 2 mA). Connect the voltage input of the device receiving the feedback to terminals S3 (or S2) and M (max 2 mA). With joint up the voltage value (or current) corresponds to the minimum value.

Voltage feedback connections

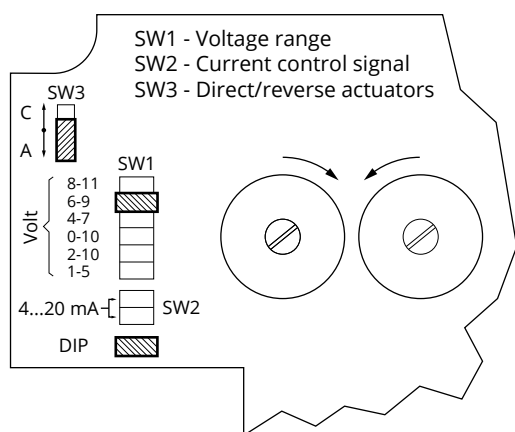


Current feedback connections



Model with proportional signal (MVH56)

These actuators are factory supplied with 0-10 V DC control signal. To select different ranges, the jumper on SW1 should be moved to the desired position. For 4-20 mA range, it is necessary to close SW2 with the available jumper in DIP position and move SW1 to position 2-10 V. In order to select the moving direction, move the SW3 jumper from A to C position.



SW3 position	Control signal	Actuator position
A	0 V	down (extended)
	10 V	up (retracted)
C	0 V	up (retracted)
	10 V	down (extended)