

MODEL : EL-Series | Linear Electric Actuators

Connection : Flange PN 16, PN 40, ANSI 150, ANSI 300

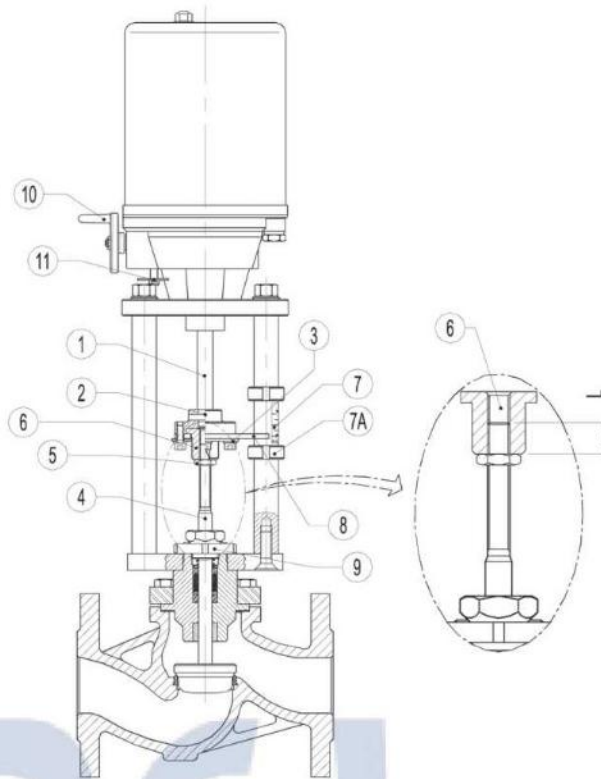


COMBINATION WITH A CONTROL VALVE (short instruction)

On delivery the driving rod (1) is driven out to the bottom end limit (anti-rotation flange at bottom mark).

Further procedure:

- Insert valve stem (4) into the valve all the way to limit stop
 - Move the driving rod (1) up by rotating the hand wheel anti-clockwise by about 20 mm (see manual operation).
 - Lift the actuator and yoke over the valve stem, place onto the top of the valve and secure using the mounting nut (9)
 - Unscrew the locking plate (3) and the anti-rotation flange (8) in succession from the coupling flange (2) and allow it to fall over the stem.
 - Remove the threaded socket (6) from the coupling flange and screw it onto the stem according to dimension L from table 1.
 - Drive out the rod by rotating the hand wheel clockwise until the threaded socket (6) stops in the coupling flange (2).
 - Screw the anti-rotation flange (8) and the locking plate (3) onto the coupling flange
 - Tighten the stem with the nut (5) against the threaded socket.
 - When mounting pay attention that the valve plug is not pressed onto the seat and is not turned.
- For electrical connections please report to IMI EL20.00



MANUAL OPERATION

The manual adjustment must not be disengaged or engaged while the motors is running.

Execute the manual adjustment only with motor being at standstill, hereto:

- With the left hand press the disengaging rod (11) with plate in direction of the outgoing driving rod toward the bottom
 - Simultaneously turn the handwheel (10) with the right hand until the coupling-in has sensible been executed
 - To actuate the linear actuator now turn the handwheel, hold the disengaging rod with the plate in engaged position
 - Turning crank handle to the right (clockwise), the driving rod moves out of the actuator
 - Turning crank handle to the left (anti-clockwise), the driving rod moves into the actuator
- (The linear actuator is automatically switched back to motoric operation, as soon as the disengaging rod will be released).

(L) Dimensions in mm

Valve Type	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
EV16G	18	18	18	13	12	14	25	25	19	-	-	-
EV40S	18	18	18	13	12	14	25	25	19	-	-	-

Table1

Actuator selection for two way valves type EV16G, EV25G and EV40S

Actuator Type	Differential pressure (bar)											
	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
EL12	38	20	12	6,5	3,5	1,8	-	-	-	-	-	-
EL20	40	40	28	16	9,9	5,8	3	1,7	0,6	-	-	-
EL45	40	40	40	40	29,8	18,5	10,5	6,6	3,8	-	-	-
EL80	40	40	40	40	40	36,4	21	13,6	8,2	-	-	-
EL120	-	-	-	-	40	40	33,1	21,6	13,3	8,3	5,6	3
EL250	-	-	-	-	-	-	40	40	30,2	19,1	12,1	5,5

Remarks: V-rings stem packing.

Actuator selection for three way valves type EV253G and EV403S

Actuator Type	Differential pressure (bar)											
	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
EL12	25	22	13,2	7,1	3,8	1,9	-	-	-	-	-	-
EL20	25	25	25	17,3	10,8	6,6	3,4	2	1,1	-	-	-
EL45	-	-	-	25	25	19,8	11,6	7,3	3,8	2,4	1,5	-
EL80	-	-	-	-	25	25	23,1	14,8	8,9	5,5	3,6	-
EL120	-	-	-	-	25	25	23,1	14,5	9,1	6,1	-	-
EL250	-	-	-	-	-	-	-	-	-	-	-	-