

AWT Switch Mechanism Turns Selection

As you will be aware, the AWT range uses technology similar to the Rotork A-Range of actuators. Turns and torque are measured and controlled using the mechanical Switch Mechanism.

To enable the Switch Mechanism (and thus the actuator) to function correctly it is essential that the valve turns be stated at the time of order. Unlike the IQ-Range, the AWT turns range has to be factory set and is governed by the limit switch gear ratio.

The limit switch gear is located on the actuator centre column and feeds the valve turns into the switch mechanism. The ratio of the limit switch gear determines the number of turns that the AWT can measure.

The table below gives the valve turns range for each limit switch gear ratio. It is critical that the required valve turns are given at the time of order otherwise the actuator will be supplied, as default, with the **LOW** ratio limit switch gear.

AWT Size Range	Limit Switch Gear Range	Limit Switch Gear Ratio	Valve Turns	
			min	max
10-18	LOW	25:8	1.5	39
	HIGH	25:2	39.1	540
19, 20-25	LOW	25:8	1.5	49
	HIGH	25:1	49.1	1080
	V.HIGH	33:1	1080.1	1386
35-40	LOW	5:1	2	59
	HIGH	25:1	59.1	1080
	V.HIGH	33:1	1080.1	1386
70-91	LOW	5:1	2.5	69
	HIGH	33:1	69.1	1386