

EZ-TORK Cycle Speed Test

Nº 1073

Purpose:

To measure the speed of a single stroke in each direction of rotation.

Comments:

When properly sized, output torque exceeds valve operation torque. The limiting factor is the speed at which the air enters the actuator and exhausts from the actuator.

Setup Parameters:

Room Temperature

Actuator Stroke 90°

Actuator were testing using our VECTOR Series pilot valves with Air Flow of CV=1.1

Pilot valve with orifice of 4mm and a flow capacity Qn400L/min for models 32-160

Pilot valve with orifice of 12m and a flow capacity Qn5100L/min for models 190-400

Clean air

80 psig supply pressure

Model	Close to Open Position	Open to Close Position	Model	Close to Open Position	Open to Close Position
EZD32	0.3s	0.4s	-	-	-
EZD50	0.3s	0.4s	EZS50	0.9s	0.7s
EZD65	0.4s	0.4s	EZS65	0.9s	0.8s
EZD75	0.4s	0.4s	EZS75	0.9s	0.9s
EZD85	0.9s	0.9s	EZS85	1.0s	1.2s
EZD95	0.9s	1.0s	EZS95	1.4s	1.4s
EZD110	0.9s	1.0s	EZS110	1.4s	1.6s
EZD125	1.3s	1.4s	EZS125	2.4s	2.4s
EZD140	1.3s	1.4s	EZS140	2.8s	3.0s
EZD160	2.0s	2.4s	EZS160	4.8s	4.9s
EZD190	2.2s	2.6s	EZS190	2.4s	3.0s
EZD210	2.9s	3.8s	EZS210	3.4s	4.1s
EZD240	3.2s	3.8s	EZS240	3.8s	4.1s
EZD270	4.4s	4.9s	EZS270	5.0s	5.5s
EZD300	5.0s	6.0s	EZS300	6.0s	6.8s
EZD350	6.2s	7.2s	EZS350	7.4s	8.4s
EZD400	7.5s	8.5s	EZS400	9.6s	10.6s

Visit our website, www.SVF.net for more information on our EZ-Tork Pneumatic Actuators.