

LP2W EC

computer-controlled electric drive



Description

This drive uses a direct-current motor and a micro-processor. The computer-controlled direct-current motor can move forwards or backwards at an infinitely adjustable speed.

As standard, the drive can rotate a ball valve through 90 degrees. The ball valve can be configured to move further in one direction or to move back and forth. Since INEL has designed and produced the drive itself and can also program the control software, it is easy for the actuator's operation and application to be customized.

A customized application would be to let the drive open a valve quickly and to let the closing movement start quickly and finish slowly (last 30% of the closing movement, for example) to prevent or reduce water hammer.

It can also be used for frequently supplying a certain volume of water. More than one million movements is no problem for the drive.

Operation

The drive is placed in a plastic housing, with an anodized aluminium block beneath it. The 24 VDC motor has gear reduction. The transmission from the motor to the gearbox is made possible by a worm wheel. The drive remains in position without using energy.

The transmission from the drive to the object to be rotated takes place by means of a coupling sleeve. There is a spline-shaft bus on the motor side and a 10 mm square on the ball valve side.

Technical specifications

Technical specifications LP2W EC	
Supply voltage:	24 VDC
Average current consumption:	3A maximum
Peak current consumption:	6A
Turning speed:	360 degrees in 1 sec.
Rotational speed:	60 rpm
Torque:	4 Nm
Control input:	Optically separated
Connection:	3x 1 mm ² cable
Housing:	Polycarbonate
Housing dimensions:	180 x 130 x 100 mm
ALU connection dimensions:	35 x 60 x 60 mm
Attachment method:	ISO flange r36

Connection:

The drive is connected by a 3-wire cable, which enters the housing via a PG9 cable gland with pull relief.

Blue : + 24 VDC
Brown : - GND
Yellow/Green : switch wire

Switch wire to + 24 Vc, ball valve open
Switch wire to – or not connected, ball valve closed