

Easytork Air Pilot Valve (“EPV”)

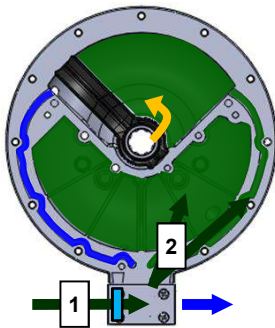
EVA can be fitted with the EPV, which is similar to a 5/2 air pilot valve. This setup allows the EVA to operate only with or without air supply. Requires only one main air supply for this setup.

EPV can be connected to any remotely mounted 3/2 solenoid valve (panel, built or attached to limit switch box conduit), this allows users to achieve fail-safe function without using the ESV.

EPV is available in standard or chemical resistant version with all silicone seals to allow wide temperature range. In fail-safe, environment air never enters EPV through vacuum associated with spring-return actuators.

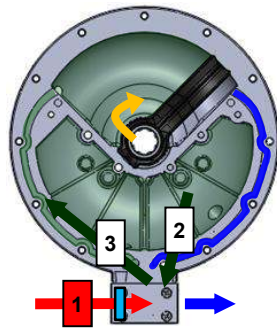
Easytork Air Pilot Valve

Counter-Clockwise



▪ With air supply

Clockwise



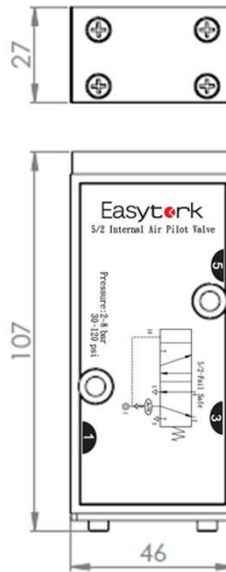
▪ Without air supply

EPV Technical Specification

Operating pressure ⁽¹⁾	2 - 10 bar (30 - 150 psi)
Operating medium	Air (dry or lubricated)
Flow l/min (Cv)	Port size: 1/4" 1000 l/min (Cv = 1.0)
Temperature range	-40°C to 120°C (-40°F to 248°F)

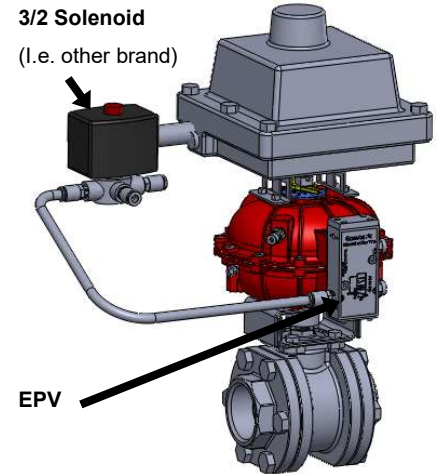
Note (1): If required, consult factory for minimum pressure setting for over 2 bar (30 psi).

Dimensions



Note: Figures in drawings in mm.

EPV With Remote Mounted 3/2 Solenoid Valve



Note: Refer to page 9 “Remote Mounted Solenoid Valve (3/2) = Fail-Safe Principle” for air flow diagram.

Basic Design Overview

Step-by-step:

1. The supply air delivered through port 1 is simultaneously channeled to through hole “B” which compresses spool spring, and through the internal check valve.
2. Supply air is channeled to through hole “D” after passing through the internal check valve.
3. Through hole “D” is connected to the spool valve chamber which directs air to either port 2 or port 4. Simultaneously, supply air from through hole “D” passes through port “C” which charges the air reservoir.

Without air supply:

- The spool spring is not compressed. Through hole “B” does not compress against spool spring, switching the pilot “Off”.
- The air reservoir maintains its pressure (check valve). Air from reservoir flows into the EPV via port “C” and through hole “D” (connected with spool valve chamber), turning actuator to fail-safe position.

With air supply:

- The spool spring is compressed. Through hole “B” compresses against spool spring, switching the pilot “On”.
- After passing through check valve, air supply from port 1 flows through hole “D” (connected with spool valve chamber), turning actuator to open position.

