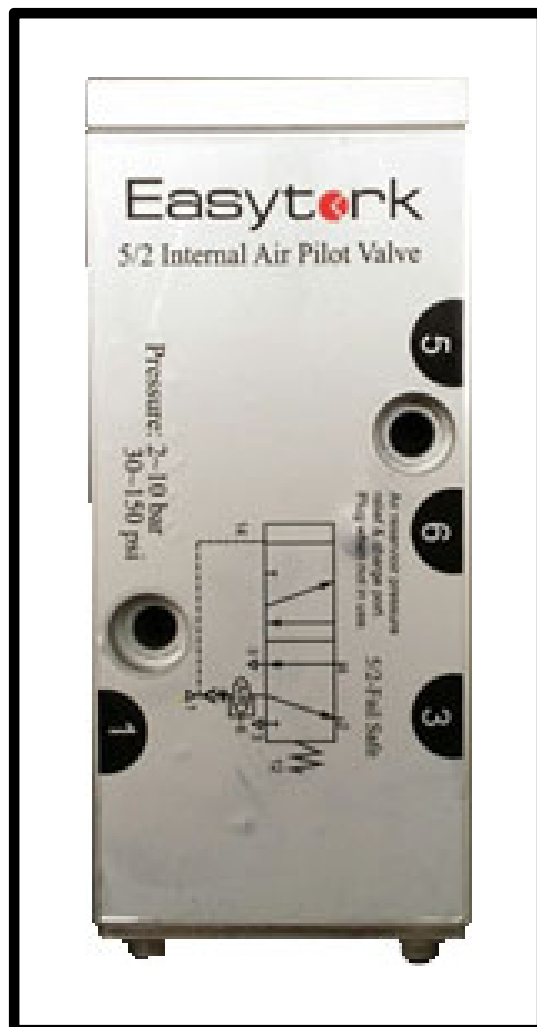


Easytork

Air Pilot Valve EPV Series



Engineered for
actuators with
onboard reservoirs

Easytork Air Pilot Valve (“EPV”)

Allows EVAs to Fail-Safe With Any Solenoid Valve

The 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.

The EPV can be connected to any remotely mounted 3/2 solenoid valve, this allows users to achieve fail-safe function without using the ESV.

The EPV is available in standard or chemical resistant version with a wide temperature range. In fail-safe, environment air never enters the EPV through vacuum which is associated with other spring-return actuators.

Using 3rd party 3/2 Solenoid Valve For Fail-Safe

Remote mount or nipple mount 3rd party 3/2 solenoid valve and still allow EVAs to fail-safe with loss of supply air

Nipple Mount
(3rd party brand)

Remote Mount
(3rd party brand)



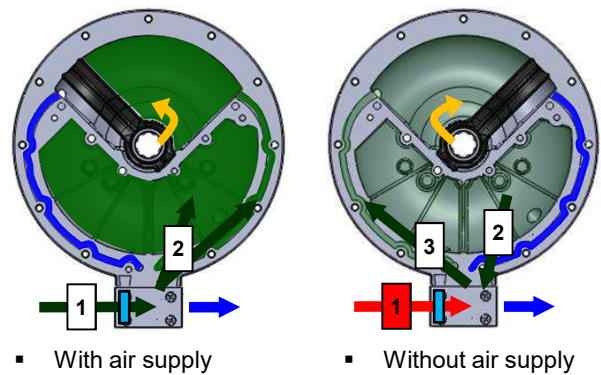
EPV

Description: Both setups achieve fail-safe with EVA actuator with a 3rd party 3/2 solenoid valve.

Easytork Air Pilot Valve

Counter-Clockwise

Clockwise

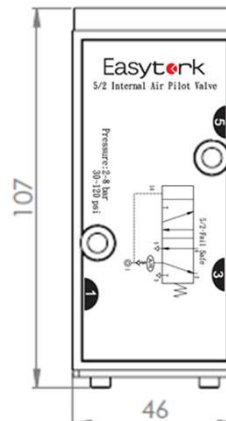
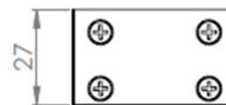


EPV Technical Specification

Operating pressure ⁽¹⁾	2 - 10 bar (30 - 150 psi)
Operating medium	Air (dry or lubricated)
Flow l/min (Cv) Port size: 1/4"	1750 l/min (Cv = 1.8)
Temperature range (standard)	-20°C to 80°C (-4°F to 176°F)
Temperature range (wide temp)	-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 mm

Patent Pending

Easytork Air Pilot Valve (“EPV”)

Basic Design Overview

Step-by-step:

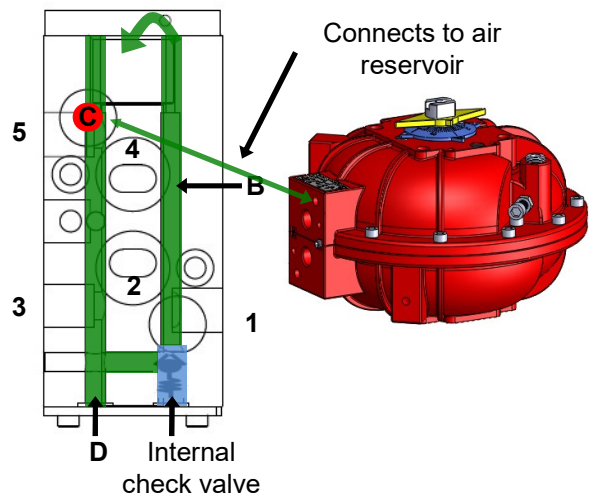
1. The supply air delivered through port 1 is simultaneously channeled to through hole “B” which compresses spool spring, and through the internal check valve.
2. Supply air is channeled to through hole “D” after passing through the internal check valve.
3. Through hole “D” is connected to the spool 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.



Ordering Codes

Easytork Air Pilot Valve

Prefix	Product Type	Model Number	EPV Attributes		
			Seal (Temp. Rating)	EPV Body Material (Corrosion Rating)	Thread
C	- AP	- X	- X	- X	X
C : Complete product	AP : Air pilot valve	1 : EPV - Easytork air pilot valve 1E EPV - Easytork air pilot valve with external port (For EVA-1646)	1 : NBR seal (-20°C to 80°C or -4°F to 176°F) 3 : Wide temp seal (-40°C to 120°C or -40°F to 248°F)	1 : Standard version 2 : Chemical resistant version	1 : Imperial 2 : Metric

About

We believe in selling "easy". Easytork brings differentiating features and benefits to the process control industry through our focus on innovation and quality. Easytork has been awarded numerous awards including:

2013 – Arch Grants Recipient

2015 – Accelerate St. Louis

2017 – Frost & Sullivan Product Innovation Award

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