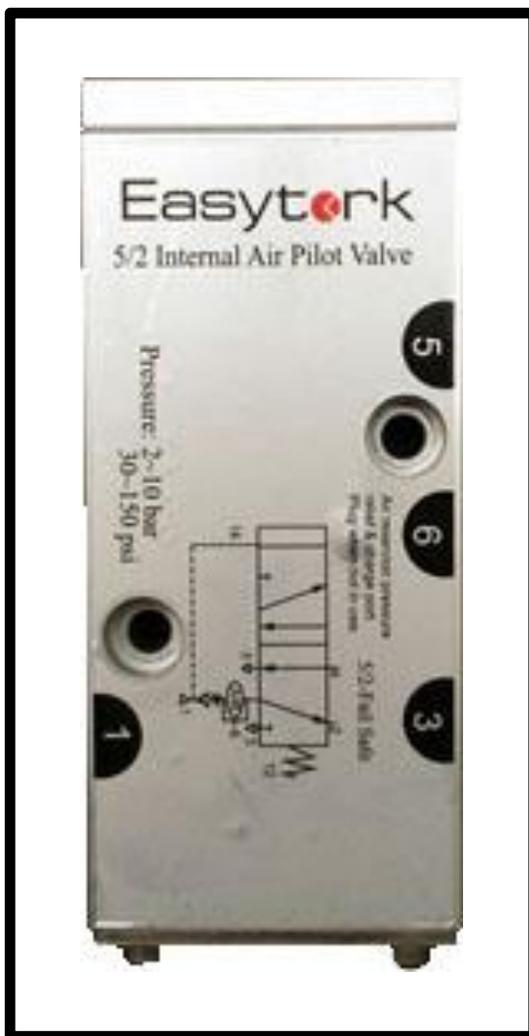


Air Pilot Valve EPV Series



Engineered for
actuators with
onboard reservoirs

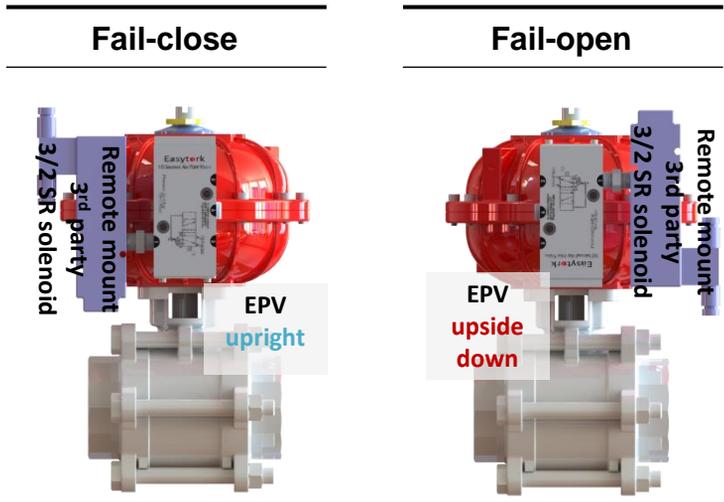
Easytork Air Pilot Valve ("EPV")

EPV allows any solenoid valve brand to work with Easytork's fail-safe

Fail-safe with any 3rd party solenoid valve

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

EPV IOM video



EPV removes problems caused by springs

Case study



EPV's closed-loop benefits



Clean internals with years of usage in dirty environment

Easytork's EPV

- Never breathes in or out environment.

Spring-return open-loop problems



Actuator breathes in and out the environment in spring-return

Spring-return actuators

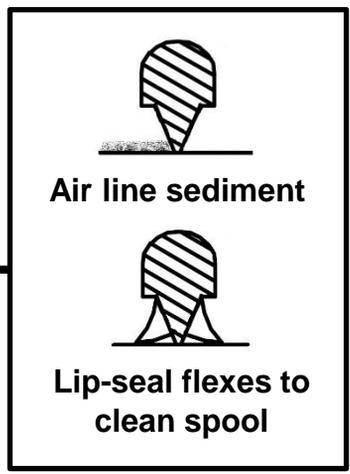
- Always breathes in and out environment, therefore issues in dirty or high-purity environments are inevitable.

EPV Overview

Improved resistance against poor instrument air

Dynamic sealing does not rely on O-rings. Instead, EPV utilizes bi-directional tapered lip-seal that wipes air line sediment and keeps spool surface clean. A high CV 1750l/min (Cv=1.8) further help remove sediments. This design also eliminates sticking problems and avoids spiral twist associated with O-rings.

EPV spool

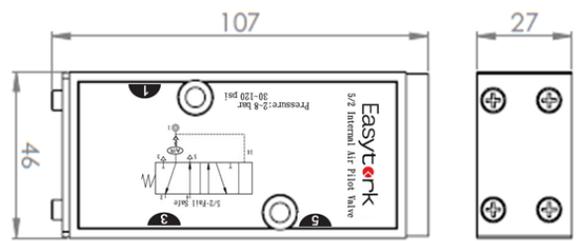


Technical

EPV Technical Specification

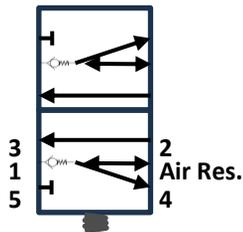
Operating pressure ⁽¹⁾	2 - 10 bar (30 - 150 psi)
Operating medium	Air (dry or lubricated)
Flow l/min (Cv) Port size: 1/4"	1750 l/min (Cv = 1.8)
Temperature range (standard)	-20°C to 80°C (-4°F to 176°F)
Temperature range (wide temp)	-40°C to 120°C (-40°F to 248°F)

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



Note: Figures in mm

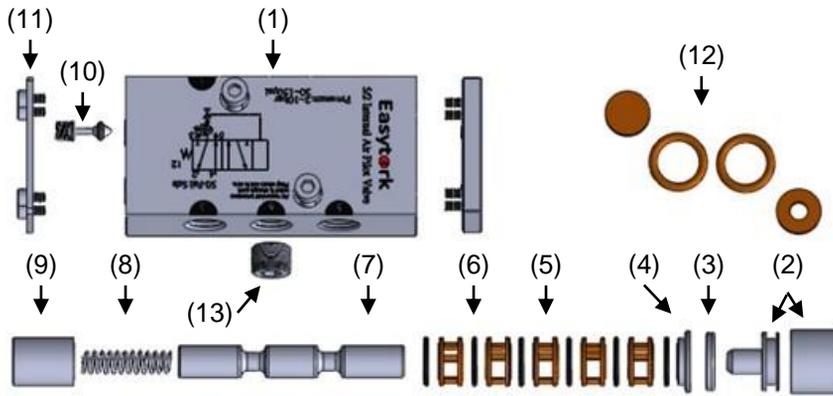
Schematic



Air flow video



Build of Materials



Ref No	Description	Corrosion Rating		Qty
		Standard	Severe Service	
1	Valve body*	Aluminum	Aluminum	1
2	Piston sleeve* / piston	Aluminum	Stainless steel (SS316)	1 set
3	Piston seal*	NBR	NBR	1
4	Retainer	Aluminum	Stainless steel (SS316)	1
5	Spacer	Brass	Brass	1 set
6	Lip seal*	NBR	NBR	1 set
7	Spool*	Stainless steel	Stainless steel (SS316)	1
8	Spring	Stainless steel (SS304)	Stainless steel (SS304)	1
9	Sleeve	Aluminum	Stainless steel (SS316)	1
10	Internal check valve	Stainless steel / stainless steel spring	Stainless steel / stainless steel spring	1
11	All bolting / plate	Stainless steel (SS304)	Stainless steel (SS304)	1 set
12	O-ring and seal plate	NBR	NBR	1 set
13	Plug	Nickle-plated steel	Nickle-plated steel	1 set

* Items marked with an asterisk require thin film of lubricant

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 for EVA-0411 through 1436 1E : ESV external port for fast acting or models EVA-1646	1 : NBR seal (-20°C to 80°C or -4°F to 176°F)	1 : Standard (discontinued) 3 : Severe service	1 : Imperial 2 : Metric