# E-Type

## **Eco Power-Saving**

Under the wave of Industry 4.0, various industries are investing in automation to improve production speed, flexibility, and cost-effectiveness, but another major problem has arisen! In the automation process, regardless of the compressed air driven by pneumatic or the power consumption of electric drive, **it will cause a lot of energy consumption.** 

Shake launched the **E-Type** series products, which not only reduce the power consumption of the solenoid valve by more than **75%** but also **reduce the temperature of the** solenoid valve coil to extend the service life of the solenoid valve.

#### **E-TYPE Eco Power-Saving Solenoid Valve**

#### Features

(1) Power savings by reducing current consumption.

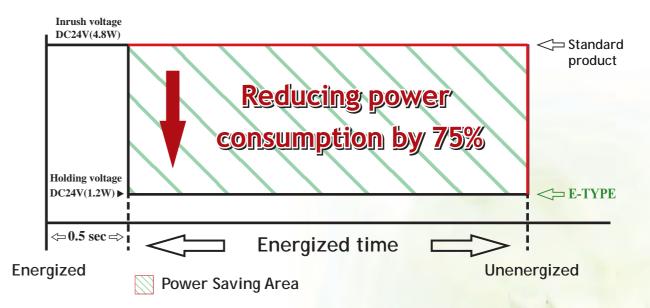
(2) Also can reduce the temperature of the solenoid's coil to improve the performance and extend the service life While saving power.

#### **Operating Principle**

When the solenoid valve is actuated, the starting voltage (Inrush voltage) is first applied to switch the valve. After the valve switching is completed, the solenoid valve at this time only needs a small current (and voltage) to maintain the current state of the valve, which is called As the holding voltage, **SHAKO** uses this feature to make "energy-saving" solenoid valves.

Generally, the pulse width modulation method (PWM) is commonly used as an energy-saving control method. The energy-saving efficiency of this method is limited. Therefore, **SHAKO** adopts the **"smart IC chip + special process"** to directly reduce the current to achieve energy-saving control.

#### The example for calculation method of energy saving



#### Test condition:

Coil: 24VDC (4.8W), Operating time: 12 hrs /day, 22 days/month

(1) Coil with Standard connector/pcs :4.8W \*12 hrs \* 22 days =1267.2W/month

(2) Coil with E-type connector/pcs:1.2W \* 12 hrs \* 22 days =316.8W/month

You can save energy of 950.4 W per month by 1pcs.



#### *Eco Power-Saving* 5/2, 5/3 Way Pilot Solenoid Valve

**E-BM** 5/2, 5/3 V Series 22mm width

#### Features

- 1. Maximum reduction of power consumption is up to 75%.
- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. Lockable manual override for easy operation.
- 4. Anodized aluminum body and strict quality control provide a long durability.
- 5. Coil nut is available, please refer to page 5-1.
- 6. For power save connector, please refer to page 5-5.



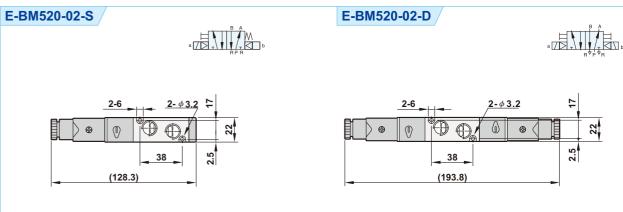
#### How to order

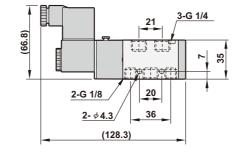
E-BM520	Х –	02	N –	S	7
520:5/2 Way	Acting style	Port size	Thread	Solenoid	Voltage
530:5/3 Way	Blank :Standard	<b>02</b> :1/4"	Blank :G	S:Single solenoid	7:12VDC
-	5/3 Way	<b>03</b> :3/8"	N:NPT	D:Double solenoid	9:24VDC
	Blank : Closed center	<b>04</b> :1/2"	R:Rc		
	X:Exhaust center				
	Y:Pressurized center				

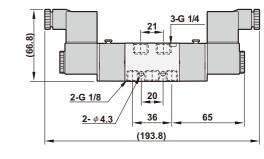
#### Specifications

Model	E-BM520-02-S E-BM520-02-D	E-BM530-02-D	E-BM520-03-S E-BM520-03-D	E-BM530-03-D	E-BM520-04-S E-BM520-04-D	E-BM530-04-D
Port size	1/4", 1/8" (E)	khaust ports)	3/8", 1/4" (Ex	(haust ports)	1/	2"
Body material			Aluminu	ım alloy		
Fluid			Compre	ssed air		
Acting			Interna	al pi <b>l</b> ot		
Effective area	18mm <sup>2</sup>	14mm <sup>2</sup>	30mm <sup>2</sup>	18mm <sup>2</sup>	50mm <sup>2</sup>	30mm <sup>2</sup>
Operating pressure range			2~8 kg	gf/cm²		
Proof pressure			9.9 kg	Jf/cm <sup>2</sup>		
Ambient temperature			-10℃ -	~ 60℃		
Duty cycle			100%	6 ED		
Coil type			DIN (Sta	andard)		
Protection class			IP65 (DIN	<b>40 050)</b>		
Insulation class	F					
Voltage tolerance	±10%					
Standard voltage	12VDC, 24VDC					
Net weight	235g(335g)	445g	410g(500g)	700g	590g(720g)	770g

#### Dimensions

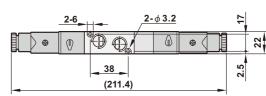


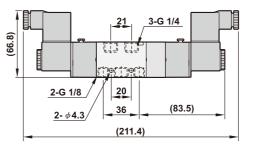




#### E-BM530(X)(Y)-02-D

#### 



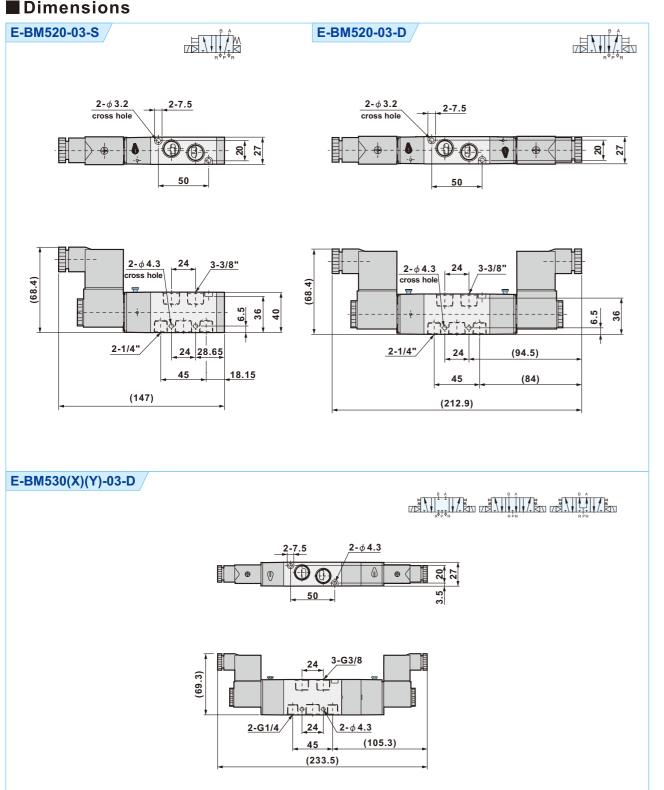


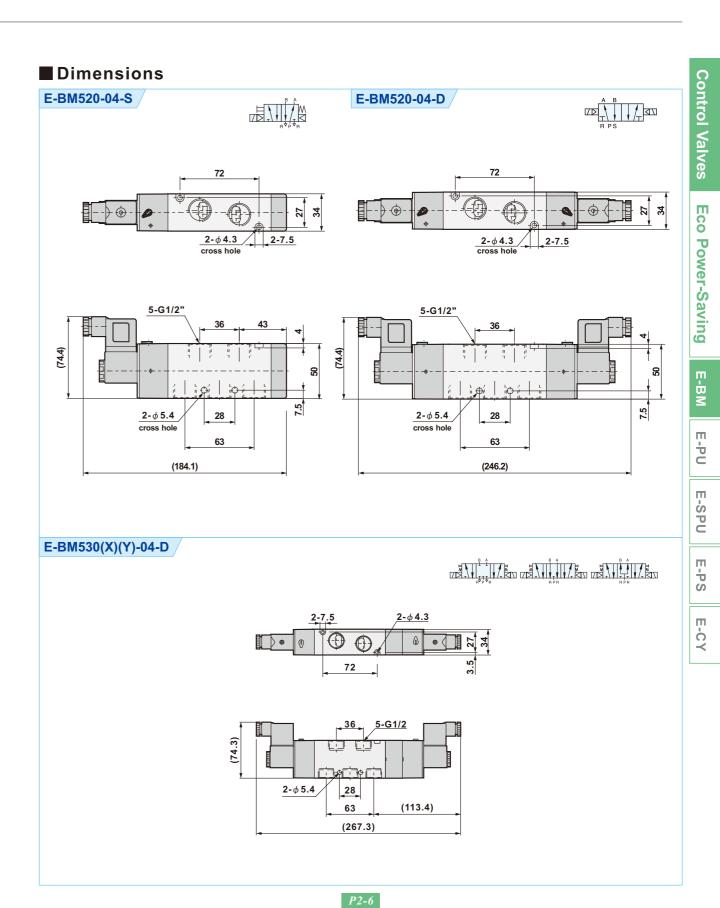
#### **Eco Power-Saving** 5/2, 5/3 Way Pilot Solenoid Valve

22mm width

#### Dimensions

**E-BM**<sub>series</sub>

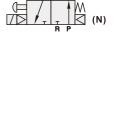


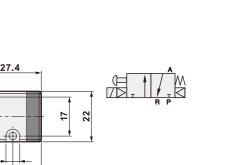




**Eco Power-Saving E-BM**<sub>series</sub> 3/2 Way Pilot Solenoid Valve

### 





#### **Features**

- 1. Maximum reduction of power consumption is up to 75%.
- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. Manual override with lock design for easy operation.
- 4. Anodized aluminum body with special machining inner slot, low friction, strict quality control provides a long durability.
- 5. Coil nut is available, please refer to page 5-1, 5-2.
- 6. For power save connector, please refer to page 5-5.



#### How to order

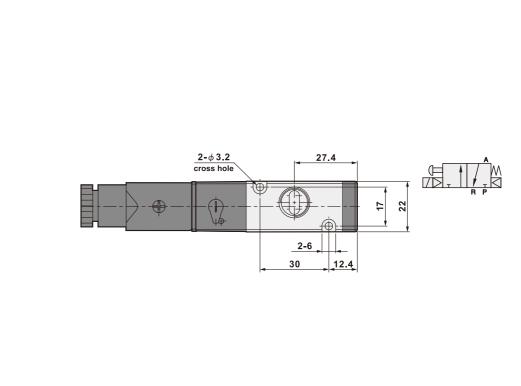
E-BM320	N –	02	N –	S	7
3/2 Way	Acting style	Port size	Thread	Solenoid	Voltage
	Blank :Normally closed N :Normally open	<b>02</b> :1/4"	Blank:G N:NPT	S:Single solenoid	7:12VDC 9:24VDC
			R:Rc		

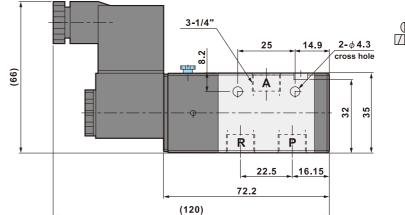
#### Specifications

Model	E-BM320(N)-02
Port size	1/4"
Body material	Aluminum alloy
Fluid	Compressed air
Effective area	16mm²
Acting	Internal pilot
Operating pressure range	1.5 ~ 8 kgf/cm <sup>2</sup>
Proof pressure	9.9 kgf/cm <sup>2</sup>
Ambient temperature	-10°C ~ 60°C
Duty cycle	100% ED
Coil type	DIN (Standard)
Protection class	IP65 (DIN 40 050)
Insulation class	F
Voltage tolerance	±10%
Standard voltage	12VDC, 24VDC
Net weight	180g

#### Dimensions

E-BM320(N)-02







#### **Eco Power-Saving E-PU**<sub>Series</sub> 5/2, 5/3 Way Pilot Solenoid Valve

**2-***φ***4.3** 

4

5-G 1/2

42

sfiîte

36

71.5

**2-***φ***4.3** 

(79.25)

민민

30.7

#### Features

- 1. Maximum reduction of power consumption is up to 75%.
- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. Lockable manual override for easy operation.
- 4. Aluminum body with surface anodizing treatment and strict quality control for long durability.
- 5. Coil nut is available, please refer to page 5-1.
- 6. For power save connector, please refer to page 5-5.



#### How to order

E-PU520	Х –	02	N –	S	7
520:5/2 Way	Acting style	Port size	Thread	Solenoid	Voltage
530:5/3 Way	Blank :Standard	01:1/8" (option)	Blank :G	S :Single solenoid	7:12VDC
	5/3 Way	<b>02</b> :1/4"	N:NPT	D:Double solenoid	9:24VDC
	Blank : Closed center	<b>03</b> :3/8"	R:Rc		
	X:Exhaust center	<b>04</b> :1/2"			
	Y:Pressurized center				

#### Specifications

Model	E-PU520-02-S E-PU520-02-D	E-PU530-02-D	E-PU520-03-S E-PU520-03-D	E-PU530-03-D	E-PU520-04-S E-PU520-04-D	E-PU530-04-D
Port size	1/4", 1/8" (Ex	khaust ports)	3/	8"	1/	2"
Body material			Aluminu	um alloy		
Fluid			Compre	ssed air		
Effective area	18mm <sup>2</sup>	14mm <sup>2</sup>	35mm <sup>2</sup>	32mm <sup>2</sup>	70mm <sup>2</sup>	54mm <sup>2</sup>
Acting		Internal pilot				
Operating pressure range	1.5~8 kgf/cm <sup>2</sup>	2~8 kgf/cm <sup>2</sup>	1.5~8 kgf/cm <sup>2</sup>		2~8 kgf/cm <sup>2</sup>	
Proof pressure			9.9 kg	Jf/cm²		
Ambient temperature			-10°C	~ 60°C		
Duty cycle			100%	6 ED		
Coil type			DIN (St	andard)		
Protection class			IP65 (DIN	40 050)		
Insulation class			F	=		
Voltage tolerance		±10%				
Standard voltage		12VDC, 24VDC				
Net weight	270g / 335g	475g	430g / 525g	715g	665g / 770g	1045g

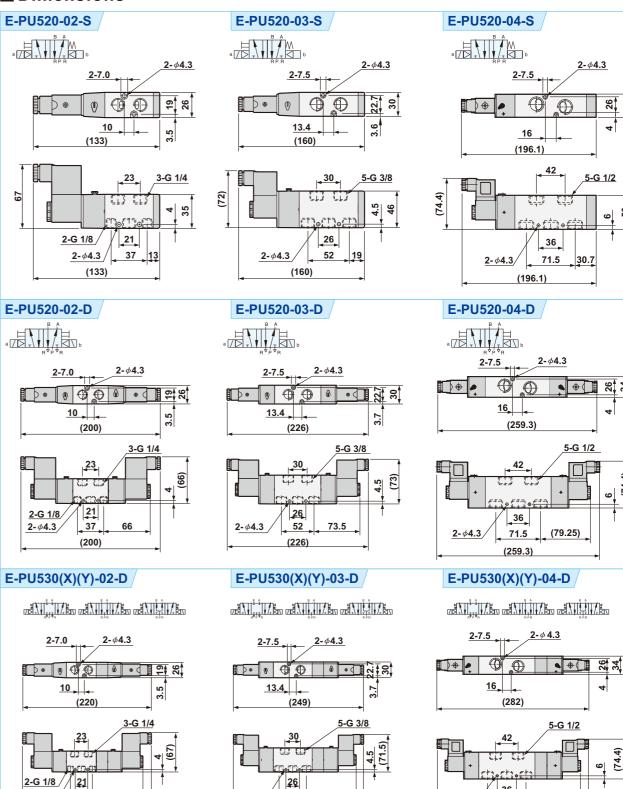
#### Dimensions

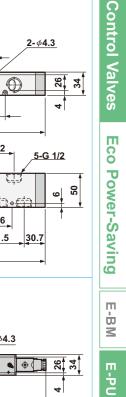
67

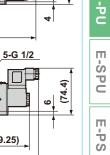
<u>2-\$4.3</u>

(220)

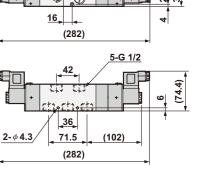
85







Ш -CY



P2-10

94.8

52

(249)

2-*\phi*4.3



#### *Eco Power-Saving* 5/2 Way External Pilot Solenoid Valve

#### Features

E-PU

1. Maximum reduction of power consumption is up to 75%.

Series

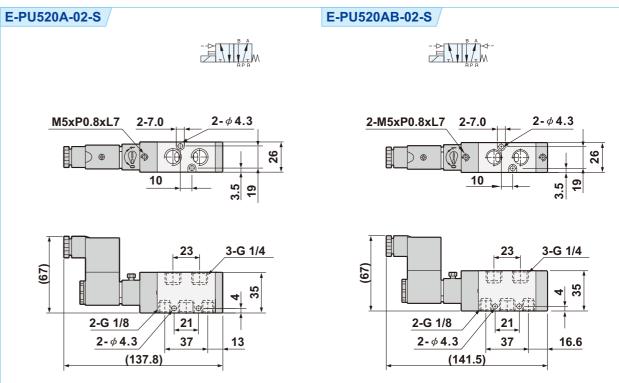
- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. Lockable manual override for easy operation.
- 4. Anodized aluminum body and strict quality control provide a long durability.
- 5. External pilot is available for vacuum equipments.
- 6. Coil nut is available, please refer to page 5-1.
- 7. For power save connector, please refer to page 5-5.



#### How to order

E-PU520	A –	02	N –	S	7
5/2 Way	Acting	Port size	Thread	Solenoid	Voltage
	A:Front pilot	01 :1/8" (Option)	Blank :G	S:Single solenoid	7:12VDC
	AB:Front & Rear pilot	<b>02</b> :1/4"	N:NPT		9:24VDC
			R:Rc		

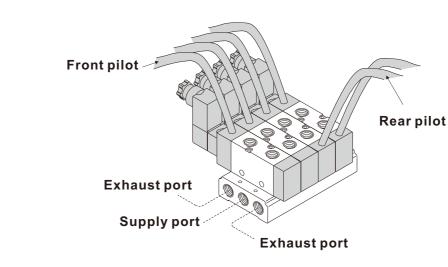
#### Dimensions



#### 5/2 way external pilot solenoid valve

- \* Pilot specifications: 1. Front pilot, 2. Rear pilot
- \* Orifice: M5

\* Manifold part number: MF520-02XX Inlet pilot at least 1.5kg higher than external pilot pressure.



P2-12

### Specifications

Model	E-PU520A-02-S	E-PU520AB-02-S				
Port size	1/4", Pilot port. (M5)					
Body material	Aluminu	um alloy				
Fluid	Compre	essed air				
Effective area	18n	nm²				
Acting	External pilot (	1.5 ~ 8 kgf/cm²)				
Operating pressure range	0 ~ 8 kgf/cm²					
Proof pressure	9.9 kgf/cm <sup>2</sup>					
Ambient temperature	-10°C	~ 60°C				
Duty cycle	100%	% ED				
Coil type	DIN (St	andard)				
Protection class	IP65 (DII	N 40 050)				
Insulation class	F	F				
Voltage tolerance	±10%					
Standard voltage	12VDC, 24VDC					
Net weight	240g 260g					



Series Eco Power-Saving 3/2 Way Pilot Solenoid Valve

**2-***φ***4.3** 

 $2 - \phi 4.3$ 

3.65

⊕

**Control Valves** 

Eco Power-Saving

E-BM

E-PU

E-SPU

E-PS

Ш

-CY

#### Features

E-PU

- 1. Maximum reduction of power consumption is up to 75%.
- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. Lockable manual override for easy operation.
- 4. Anodized aluminum body and strict quality control provide a long durability.
- 5. Coil nut is available, please refer to page 5-1.
- 6. For power save connector, please refer to page 5-5.



H	ow	to	order	
---	----	----	-------	--

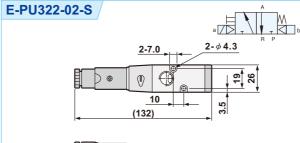
E-PU322	N –	02	N —	S	7
3/2 Way	Acting style	Port size	Thread	Solenoid	Voltage
	Blank :Normally closed	<b>02</b> :1/4"	Blank :G	S:Single solenoid	7:12VDC
	N:Normally open	<b>03</b> :3/8"	N:NPT		9:24VDC
		<b>04</b> :1/2"	R:Rc		

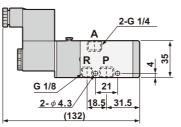
#### Specifications

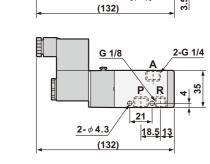
Model	E-PU322(N)-02-S	E-PU322(N)-03-S	E-PU322(N)-04-S		
Port size	1/4"	3/8"	1/2"		
Body material		Aluminum alloy			
Fluid		Compressed air			
Effective area	18mm <sup>2</sup>	35mm <sup>2</sup>	70mm <sup>2</sup>		
Acting		Internal pilot			
Operating pressure range	$2 \sim 8 \text{ kgf/cm}^2$				
Proof pressure	9.9 kgf/cm <sup>2</sup>				
Ambient temperature		-10°C ~ 50°C			
Duty cycle		100% ED			
Coil type		DIN (Standard)			
Protection class		IP65 (DIN 40 050)			
Insulation class		F			
Voltage tolerance		$\pm 10\%$			
Standard voltage		12VDC, 24VDC			
Netweight	280g	450g	685g		

**P2-13** 

#### Dimensions







2-7.0

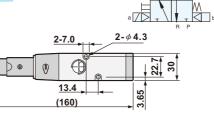
10

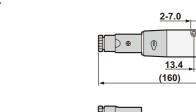
0



E-PU322-04-S

(74.4)

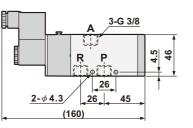




E-PU322N-03-S

E-PU322N-02-S

0



2-7.0

•

 $\bigcirc$ 

<u>16</u> (196.2)

<u>i i</u>

36 35.75

Ŗ

196.2

**2-**\$\$

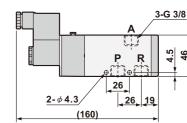
α **2**-φ4.3

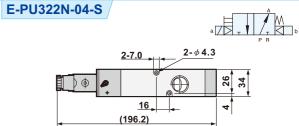
<u>3-G 1/2</u>

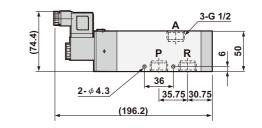
66.5

7

2 0







*P2-14* 



**Eco Power-Saving** 3/2 Way Direct Solenoid Valve E-PU Series

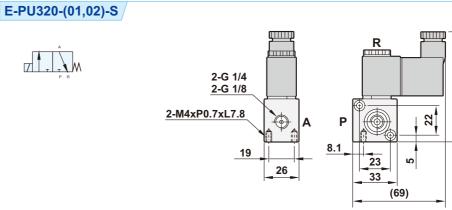
#### Features

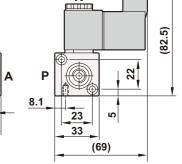
- 1. Maximum reduction of power consumption is up to 75%.
- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. 3/2 way solenoid valve. The valve is easy to be stacked.
- 4. To stack the valve, assembly kit is necessary.
- 5. Assembly kit includes O-ring x 1, bolt x 2, screw x 2, nut x 2.
- 6. Coil nut is available, please refer to page 5-1.
- 7. For power save connector, please refer to page 5-5.



#### Dimensions

Z T T T M







#### 2-G 1/8 2-G 1/4 2-G 1/4 2-G 1/8 (82.5) 2-M4xP0.7xL7.8 ដ (Ģ) 19 8.1 23 ŝ 26 (69)

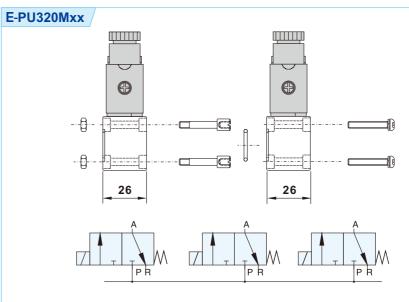
#### How to order

E-PU320	Ν	M02 –	02	N —	S	7
3/2 Way	Acting style	Number of stack	Port size	Thread	Solenoid	Voltage
	Blank:Normally closed	Blan:W/O stack	<b>01</b> :1/8"	Blank:G	S:Single solenoid	7:12VDC
	N:Normally open	M02:2 valves stack	<b>02</b> :1/4"	N:NPT		9:24VDC
		M03:3 valves stack		R:Rc		
		Mxx:xx valves stack				

#### Specifications

Model	E-PU320(N)-01-S	E-PU320(N)-02-S		
Port size	1/8"	1/4"		
Body material	Aluminu	um alloy		
Effective area	1.5r	mm²		
Fluid	Compre	essed air		
Acting	Direct acting w	ith spring return		
Operating pressure range	0 ~ 8 k	gf/cm²		
Proof pressure	9.9 kgf/cm <sup>2</sup>			
Ambient temperature	-10°C ~ 60°C			
Duty cycle	100% ED			
Coil type	DIN			
Protection class	IP65 (DI	N 40 050)		
Insulation class	F			
Voltage tolerance	±10%			
Standard voltage	12VDC, 24VDC			
Net weight	180g	160g		

#### How to stack valve



#### Mounting kit includes Description Qty. O-ring 1 2 Bolts 2 Screws 2 Hex nuts

E-BM





E-PI

#### *Eco Power-Saving* 5/2 Way SUS316 Pilot Solenoid Valve

SUS316 Stainless Steel Body

#### Features

1. Maximum reduction of power consumption is up to 75%.

Series

- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. Stainless steel SUS316 body for corrosion resistance.
- 4. Coil nut is available, please refer to page 5-1.
- 5. For power save connector, please refer to page 5-5.



#### How to order

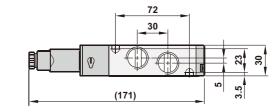
E-SPU520 -	02	N –	S	7
5/2 Way	Port size	Thread	Solenoid	Voltage
	<b>02</b> :1/4"	Blank :G	S:Single solenoid	7:12VDC
	<b>03</b> :3/8"	N :NPT	D:Double solenoid	9:24VDC
	<b>04</b> :1/2"	R:Rc		

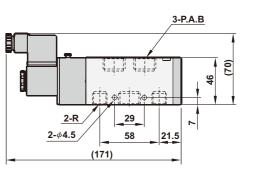
#### Specifications

Model	E-SPU520-02-S	E-SPU520-03-S	E-SPU520-04-S	E-SPU520-02-D	E-SPU520-03-D	E-SPU520-04-D
Port size	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
Body material			SUS	316		
Effective area	35mm <sup>2</sup>	65n	nm²	35mm <sup>2</sup>	65n	nm²
Fluid			Compre	ssed air		
Acting			Interna	al pilot		
Operating pressure range			1.5~8 k	(gf/cm <sup>2</sup>		
Proof pressure			9.99 k	gf/cm <sup>2</sup>		
Ambient temperature	-10°C ~ 60°C					
Insulation class	F					
Temperature class	EEXmIIT4					
Duty cycle		100% ED				
Voltage tolerance	±10%					
Protection class	IP65 (EN 60529)					
Standard voltage	12VDC, 24VDC					
Net weight		1000g			1200g	

#### Dimensions

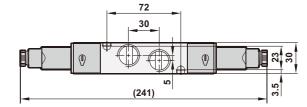
## E-SPU520-02,03,04-S

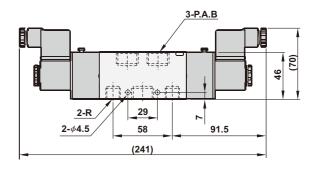




#### E-SPU520-02,03,04-D







P2-18

Model	Α	В	Р	R
E-SPU520-02	1/4	1/4	1/4	1/4
E-SPU520-03	3/8	3/8	3/8	3/8
E-SPU520-04	1/2	1/2	1/2	3/8

#### 



#### **Eco Power-Saving** 5/2, 5/3 Way ISO Solenoid Valve

#### Features

- 1. Maximum reduction of power consumption is up to 75%.
- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. ISO 1, ISO 2 solenoid valve.
- 4. Aluminum alloy body.
- 5. With single sub base and manifold sub-base which are identical to ISO 1 & ISO 2 standard.
- 6. Coil nut is available, please refer to page 5-1.
- 7. For power save connector, please refer to page 5-5.

#### How to order

E-PS520	F -	02	N —	S	7
5/2 Way	Sub-Base	Port size	Thread	Solenoid	Voltage
	Blank :W/O base	02 :ISO 1	Blank :G	S:Single solenoid	7:12VDC
	F:W/I single sub-base	03 :ISO 2	N:NPT	D:Double solenoid	9:24VDC
	M02:2 Valves stack	04 :ISO 2	R:Rc		
	M03:3 Valves stack				
	Mxx :xx Valves stack				

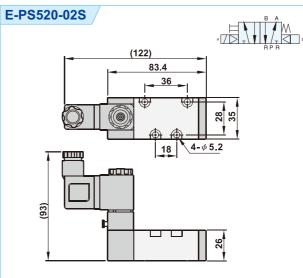
#### How to order manifold

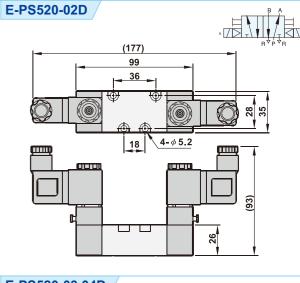
ZESF –	02	ZEPS520B -	02	ZEPS520E ·	- 02
Single sub-base	Port size	Manifold sub-base	Port size	End plate	Port size
	02 : 1/4" (ISO 1)		02 : 1/4" (ISO 1)		02:3/8" (ISO 1)
	03 : 3/8" (ISO 2)		03:3/8" (ISO 2)		03 : 1/2" (ISO 2)
	04 : 1/2" (ISO 2)				

#### Specifications

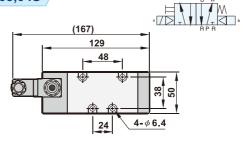
Model	E-PS520-02-S	E-PS520-02-D	E-PS520-03-S	E-PS520-03-D	
Port size	1/	4"	3/8" (1/2")		
Body material		Aluminu	ım alloy		
Effective area	29r	nm²	62n	nm²	
Fluid		Compre	ssed air		
Acting		Interna	al pilot		
Operating pressure range		$1.5 \sim 8$	kgf/cm <sup>2</sup>		
Proof pressure	9.9 kgf/cm <sup>2</sup>				
Ambient temperature	-10°C ~ 60°C				
Duty cycle		100%	% ED		
Coil type	DIN				
Protection class		IP65 (DI	N 40 050)		
Insulation class	F				
Voltage tolerance	±10%				
Standard voltage	12VDC, 24VDC				
Net weight (W/I base)	320g (500g)	460g (640g)	700g (980g)	840g (1120g)	

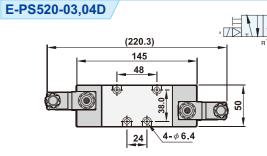
#### Dimensions

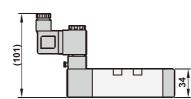




E-PS520-03,04S







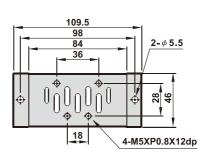
**Control Valves** 

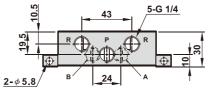
Eco Power-Saving

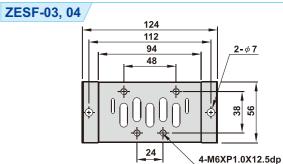
E-BM

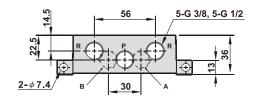
E-PU

ZESF-02

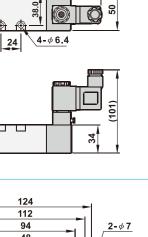












P2-20



#### **Eco Power-Saving** 5/2 Way Pilot Solenoid Valve

Namur Valve

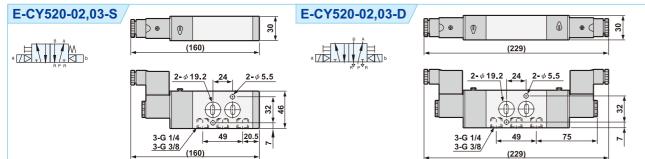
#### Features

- 1. Maximum reduction of power consumption is up to 75%.
- Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- Lockable manual override for easy operation.
   Anodized aluminum body and strict quality
- control provide a long durability.
- 6. Coil nut is available, please refer to page 5-1.
- 7. For power save connector, please refer to page 5-5.

#### How to order

E-CY520 -	02	N –	S	7
5/2 Way	Port size	Thread	Solenoid	Voltage
	<b>02</b> :1/4"	Blank :G	S:Single solenoid	7:12VDC
	<b>03</b> :3/8"	N:NPT	D:Double solenoid	9:24VDC
		R:Rc		

#### Dimensions



#### Specifications

Model	E-CY520-02-S	E-CY520-02-D	E-CY520-03-S	E-CY520-03-D	
Port size	1/	4"	3/8"		
Body material		Aluminu	um alloy		
Fluid		Compre	ssed air		
Effective area		35n	nm²		
Acting		Interna	al pilot		
Operating pressure range		1.5~8	kgf/cm <sup>2</sup>		
Proof pressure	9.99 kgf/cm <sup>2</sup>				
Ambient temperature	-10℃ ~ 50℃				
Duty cycle	100% ED				
Coil type	DIN (Standard)				
Protection class		IP65 (DIN 40 050)			
Insulation class	F				
Voltage tolerance	$\pm 10\%$				
Standard voltage	12VDC, 24VDC				
Net weight	420.5g	503.6g	412g	495g	

#### **P2-23**



## **⊚ SHAKO**

## Eco Power-Saving SHAKO

5/2, 3/2 Way Pilot Solenoid Valve

ries Namur Valve

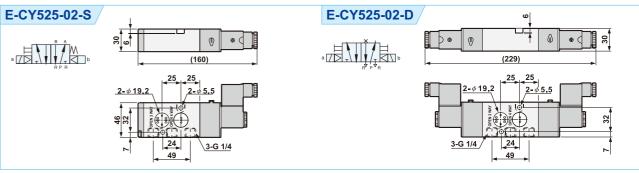
#### Features

- 1. Maximum reduction of power consumption is up to 75%.
- 2. Effectively reduce the temperature rise of coil and extend service life of solenoid valve.
- 3. The switch gasket attached on the valve for 5/2 way and 3/2 way convertible.
- 4. The mounting holes on the valve is identical to ISO standard for easy installation on the single or double acting cylinder actuated ball valve.
- 5. Lockable manual override for easy operation.
- 6. Anodized aluminum body and strict quality control provide a long durability.
- 7. Coil nut is available, please refer to page 5-1.
- 8. For power save connector, please refer to page 5-5.

#### How to order

E-CY525 -	02	N —	S	7	
5/2 Way	Port size	Thread	Solenoid	Voltage	
**Attaching with a switch gasket for	<b>02</b> :1/4"	Blank :G	S:Single solenoid	7:12VDC	
5/2 way and 3/2 way		N:NPT	D:Double solenoid	9:24VDC	
convertible.		R:Rc			

#### Dimensions



#### Specifications

Model	E-CY525-02-S	E-CY525-02-D		
Port size	1/4"			
Body material	Aluminu	um alloy		
Fluid	Compre	ssed air		
Effective area	35n	nm²		
Acting	Interna	al pilot		
Operating pressure range	1.5~8 kgf/cm <sup>2</sup>			
Proof pressure	9.99 kgf/cm <sup>2</sup>			
Ambient temperature	-10℃ ~ 50℃			
Duty cycle	100% ED			
Coil type	DIN (Standard)			
Protection class	IP65 (DIN 40 050)			
Insulation class	F			
Voltage tolerance	$\pm 10\%$			
Standard voltage	12VDC, 24VDC			
Net weight	305g 390g			

P2-24



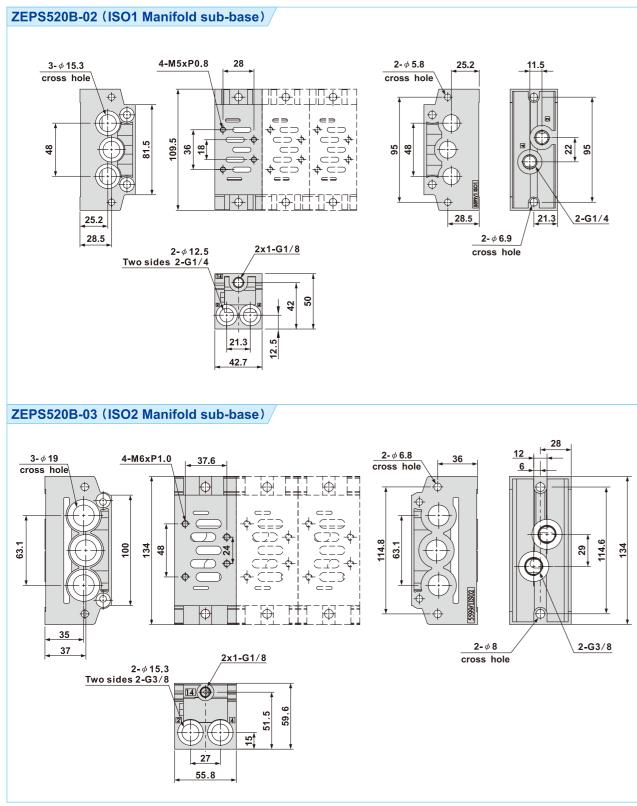
E-BM

**Control Valves** 

#### Eco Power-Saving 5/2, 5/3 Way ISO Solenoid Valve

#### Dimensions

E-PS Series

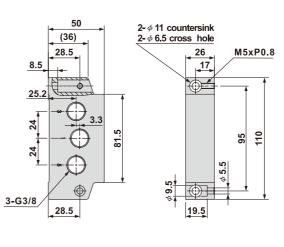


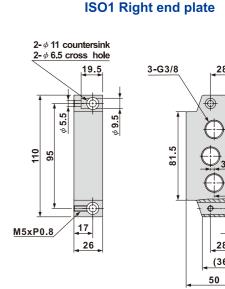
**P2-21** 

#### Dimensions

ZEPS520E-02 (ISO1 End plate)

**ISO1 Left end plate** 



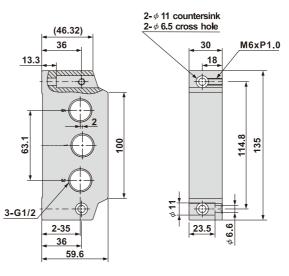


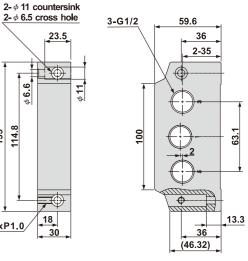


#### ZEPS520E-03 (ISO2 End plate)

**ISO2** Left end plate

**ISO2 Right end plate** 





28.5

24

24

25.2

8.5

28.5

(36)

E-BM

<u>ട</u>

135 14.8

M6xP1.0/