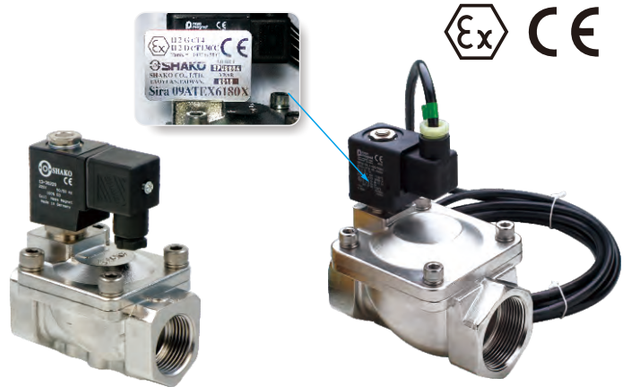
225 Series 2/2 Way Solenoid Valve

Stainless Steel SUS316 Series, Pilot Acting

Features

1. Pilot acting for low starting pressure.
2. Large flow rate and high working pressure.
3. Quick response.
4. Stainless steel body and stem provide exceptional durability.
5. Flange type is available for JIS 10K, ANSI 150LB and PN16.
6. Ex-proof coil T4 as optional accessory, please refer to page 5-9.
7. Timer for setting on/off time as optional accessory.
8. CE and EX-proof certified for all series.
9. Coil nut is available, please refer to page 5-3.



How to order

SPU225A	N	E	F	—	03	N	—	S1	L	E
Stainless steel Pilot acting	Acting style	Diaphragm	Flange type		Port size	Thread		Voltage	Led	Ex-Proof coil
	Blank: Normally closed	Blank: VITON	F: 10K		03: 3/8"	Blank: G		S1: 110VAC	Blank: W/O LED	Blank: Standard
	N: Normally open	B: NBR	F3: 150LB		04: 1/2"	N: NPT		S2: 220VAC	L: W/I LED	E: EX-proof coil
		E: EPDM	F4: PN16		06: 3/4"	R: Rc		S6: 24VAC		
		H: HNBR			08: 1"			S7: 12VDC		
					12: 1 1/4"			S9: 24VDC		
					14: 1 1/2"					
					20: 2"					

Specifications

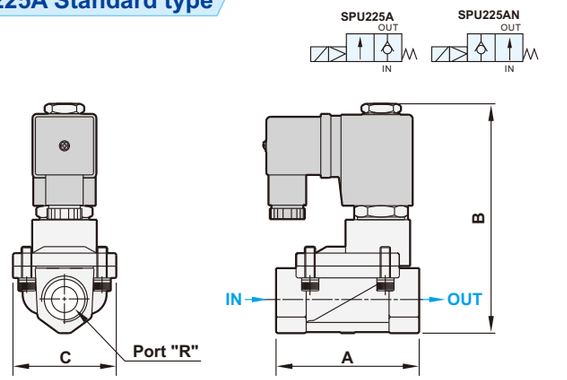
Model	SPU225A-03	SPU225A-04	SPU225A-06	SPU225A-08	SPU225A-12	SPU225A-14	SPU225A-20
Port size	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Fluid	Compressed air (light oil, water)						
Aseries orifice	13mm		25mm		38mm		50mm
Effective area	88mm²		230mm²		404mm²	552mm²	883mm²
Acting	Pilot acting						
Diaphragm	VITON (Standard), NBR, EPDM (Option)						
Operating pressure range	0.5 ~ 10 kgf/cm²						
Proof pressure	15 kgf/cm²						
Body /Flange material	Stainless steel SUS316 / SUS304,SUS316						
Fluid temperature	-10℃ ~ 90℃						
Ambient temperature	-10℃ ~ 60℃						
Installation	Horizontal						
Duty cycle	100% ED						
Coil type	DIN						
Protection class	IP65 (DIN 40 050)						
Insulation class	F						
Voltage tolerance	±10%						
Standard voltage	220VAC, 110VAC, 24VDC, the other voltage is optional						
Power consumption	Normally closed AC110V:17.6VA, AC220V:18.1VA, DC: 15W ; Normally open AC: 17.8VA, DC: 15W						
Net weight	775g		1550g		2820g		4665g

Seal material selection guide

Seal	Temperature range	Suitable fluid	Unsuitable fluid
NBR	-15℃ ~ 80℃	Air, Water, Neutral gases, Mineral oil	Fuel oil, Gasoline and Hi-test gasoline, Diesel fuel
HNBR	-40℃ ~ 150℃	Air, Water, Gear oil, Engine oil	Pharmaceutical liquid, Gasoline and Hi-test gasoline, Light oil
VITON	-10℃ ~ 180℃	Fuel oil, Gasoline and Hi-test gasoline, Diesel fuel	Hot water, Steam, Brake oil (ATE Blue)
EPDM	-5℃ ~ 130℃	Hot water, Detergent liquid	Mineral oil, Gasoline

Dimensions

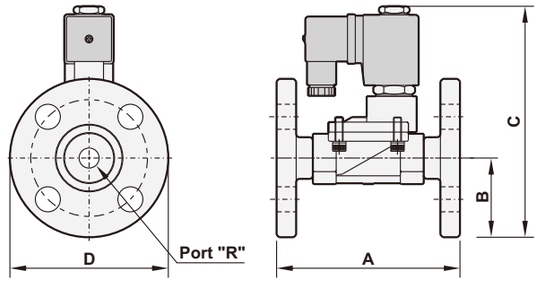
SPU225A Standard type



(mm)

Model	SPU225A -03	SPU225A -04	SPU225A -06	SPU225A -08	SPU225A -12	SPU225A -14	SPU225A -20
R	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	66.5	66.5	100	100	131.5	131.5	160
B	106.5	106.5	126.5	126.5	145.5	145.5	160.5
C	48	48	70	70	96	96	112

SPU225A Flange type (10K)

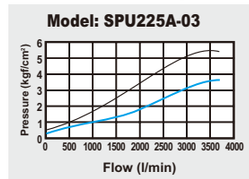


(mm)

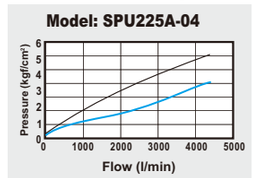
Model	SPU225AF -03	SPU225AF -04	SPU225AF -06	SPU225AF -08	SPU225AF -12	SPU225AF -14	SPU225AF -20
R	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	110	110	149	150	180	180	210
B	45	47.5	50	62.5	67.5	70	77.5
C	137	139.5	152.5	164	173	182.5	210
D	90	95	100	125	135	140	155

Flow chart

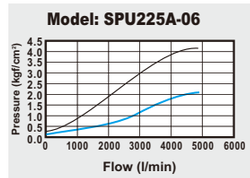
3/8" Pilot acting



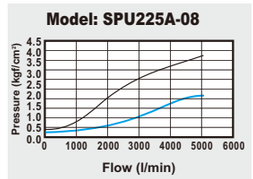
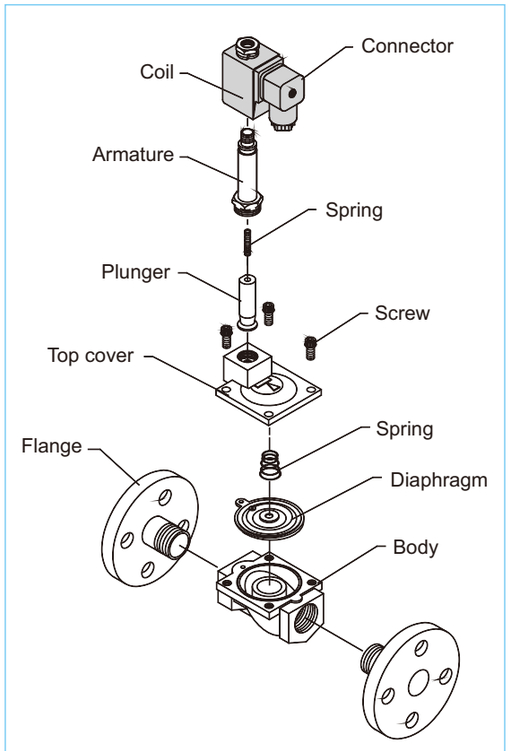
1/2" Pilot acting



3/4" Pilot acting



1" Pilot acting



Explosion