220 Series 2/2 Way Solenoid Valve

Stainless Steel SUS316 Series, Direct Acting

Features

1. Quick response.
2. Ex-proof coil is available, please refer to page 5-9.
3. Timer for setting on/off time as optional accessory.
4. Available for vacuum conditions.
5. Stainless steel stem provides exceptional durability.
6. Coil nut is available, please refer to page 5-3.
7. CE conformity.

How to order

SPU220AR N E – 01 1 N – S1 L E

2/2 way direct acting	Acting style	Diaphragm	Port size	Orifice	Thread	Voltage	Led	Ex-Proof coil
	Blank:Normally closed **N**:Normally open (For orifice Ø1.6, Ø2.4 only)	**Blank**:VITON **E**:EPDM **B**:NBR **H**:HNBR **P**:PTFE (Only Normally closed)	**01**:1/8" (Not available for orifice Ø5.0) **02**:1/4"	**1**:Ø1.6 **2**:Ø2.4 **3**:Ø3.2 **4**:Ø4.0 **5**:Ø5.0	**Blank**:G **N**:NPT **R**:Rc	**S1**:110VAC **S2**:220VAC **S6**:24VAC **S7**:12VDC **S9**:24VDC	**Blank**:W/O LED **L**:W/I LED	**Blank**:Standard **E**:Ex-proof coil

How to order Repair kit

ZGSPU220AR – 01 N

Repair kit	Port size	Diaphragm
ZGSPU220AR (Normally closed) **ZGSPU220ARN (Normally open)**	**01**:1/8", 1/4"	**N**:NBR **V**:VITON **E**:EPDM **H**:HNBR **P**:PTFE (Only Normally closed)

Description	Qty.
Plunger	1
O-ring	1

Specifications

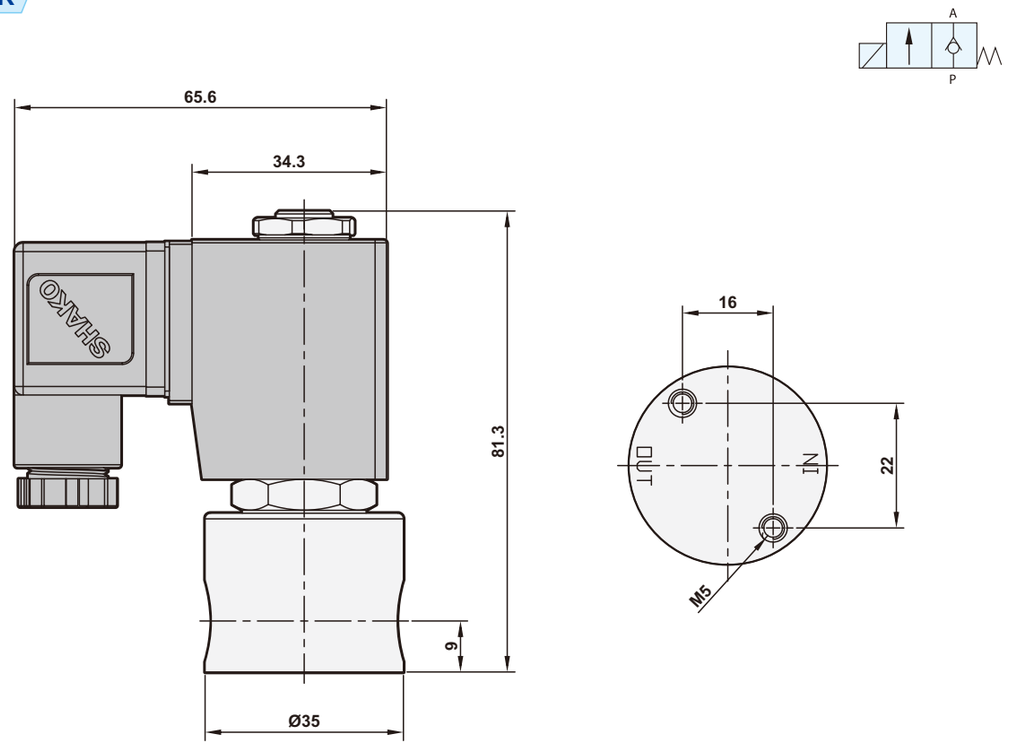
Model	SPU220AR-01	SPU220AR-02
Port size	1/8"	1/4"
Fluid	Compressed air (light oil, water)	
Acting	Direct acting	
Operating pressure range	Please refer to operating pressure table (P4-8).	
Body material	Stainless steel SUS316	
Fluid temperature	-10°C ~ 90°C	
Ambient tempoerature	-10°C ~ 60°C	
Installation	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	AC110V: 17.6VA, AC220V: 18.1VA,DC:15W (DC: 18.5W option)	
Net weight	242g	232g

Seal material selection guide

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

Dimensions

SPU220AR



Operating pressure table

Model	SPU220AR Normally closed (kgf/cm²)				
Orifice	Ø1.6	Ø2.4	Ø3.2	Ø4.0	Ø5.0
Port size 1/8	0 ~ 20	0 ~ 10	0 ~ 7	0 ~ 5	---
Port size 1/4	0 ~ 20	0 ~ 10	0 ~ 7	0 ~ 5	0 ~ 4

Model	SPU220ARN Normally open (kgf/cm²)	
Orifice	Ø1.6	Ø2.4
Port size 1/8	0 ~ 10	0 ~ 7
Port size 1/4	0 ~ 10	0 ~ 7