

■ Features

1. Direct acting.
2. Quick response.
3. Timer for setting on/off time as optional accessory.
4. Ex-proof coil is available, please refer to page 5-9, 5-10.
5. Coil nut is available, please refer to page 5-1, 5-3.
6. CE conformity.

■ How to order

PU220AR	V	—	01	1	N	—	S1	L	E1
Brass direct acting	Diaphragm	Port size	Pressure	Thread	Voltage	Led	Ex-Proof coil		
	Blank :NBR V:VITON E:EPDM H:HNBR	01 :1/8" 02 :1/4" 03 :3/8"	Blank:Standard 1:High pressure 2:Medium pressure *High pressure & Medium pressure are only available for PU220AR-01 & PU220AR-02	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 :DIN E1:Ex-proof 22mm width E2:Ex-proof 30mm width E3:Ex-proof CSAstandard E4:Ex-proof 36mm width PU220AR-03 is only available for E4 ex-proof coil.		

■ How to order Repair kit

ZGPU220AR — 01		N	ZGPU220AR-01		ZGPU220AR-03	
Repair kit	Port size	Diaphragm	Description	Qty.	Description	Qty.
	01 : 1/8", 1/4" 03 : 3/8"	N : NBR V : VITON E : EPDM H : HNBR	Plunger	1	Plunger	1
			O-ring	1	Orifice adaptor	1
					Diaphragm	1
					O-ring	1

■ Specifications

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Model	PU220AR-01	PU220AR-011	PU220AR-012	PU220AR-02	PU220AR-021	PU220AR-022	PU220AR-03
Port size	1/8"			1/4"			3/8"
Fluid	Compressed air (light oil, water)						
Orifice	Ø1.5mm	Ø0.8mm	Ø1.2mm	Ø2.3mm	Ø1.2mm	Ø1.5mm	Ø8.0mm
Effective area	1.8mm²			3.3mm²			20.64mm²
Acting	Direct acting						Assisted lift
Construction	Gasket						Diaphragm
Operating pressure range AC	0~8.5kgf/cm²	0~20kgf/cm²	0~16kgf/cm²	0~8.5kgf/cm²	0~20kgf/cm²	0~16kgf/cm²	0~8.5kgf/cm²
Operating pressure range DC	0~7kgf/cm²	0~13kgf/cm²	0~10kgf/cm²	0~7kgf/cm²	0~13kgf/cm²	0~10kgf/cm²	0~7kgf/cm²
Proof pressure	10 kgf/cm²						
Body material	Brass						
Fluid temperature	-10°C ~ 90°C						
Ambient temperature	-10°C ~ 60°C						
Installation	Any direction (Horizontal is recommended)						
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	AC: 6.0VA, DC: 4.8W						AC110V:17.6VA, AC220V:18.1VA, DC:15W (DC:18.5W option)
Net weight	175g			255g			510g



■ 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

PU220AR-01	PU220AR-02	PU220AR-03