PND / PSO / PSC type Pneumatic Actuator Specifications

FEATURE

Compact, lightweight and double piston structure pneumatic actuator. Simple structure and long service life.

PND type

Classification	Double-acting type					
Actuator type		PND-03S	PND-03D	PND-04D	PND-05D	
Weight	[kg]	0.2	0.3	0.5	0.8	
Air consumption (round-trip)	[{]	0.05	0.08	0.19	0.35	
Operation time	[s]	Less than 1.				
Operation		SHUT by air to port A. ↔ OPEN by air to port B.				
Air pressure	0.4 to 0.7 MPa					
Piping connection	Rc 1/8					
Method of operation	Scotch yoke					
Housing material	PPS resin					
Ambient temperature	-10 to 50 °C (Please be careful when you use in 5 °C or less, so that there no freeze.)					
Manual operation Operates the upper shaft of the actuator directly.						
			2		#: 4 ODEN/D:#:	

3 way valve: SHUT/Position-1, OPEN/Position-2.

PSO / PSC type

Classification		Single-acting type (Spring-return)					
Actuator type		PSO - 03S PSC - 03S	PSO - 03D PSC - 03D	PSO - 04D PSC - 04D	PSO - 05D PSC - 05D	PSO - 05W PSC - 05W	
Weight	[kg]	0.2	0.4	0.6	1.2	1.8	
Air consumption (round-trip)	[ℓ]	0.03	0.04	0.1	0.2	0.53	
Air exit		One side	Both sides				
Operation time	[s]	Less than 1.					
Operation		PSO : OPEN by air to intake port. ↔ SHUT by spring-return. (Airless SHUT) PSC : SHUT by air to intake port. ↔ OPEN by spring-return. (Airless OPEN)					
Air pressure		0.4 to 0.7 MPa					
Piping connection		Rc 1/8					
Method of operation		Scotch yoke					
Housing material		PPS resin					
Ambient temperature	-10 to 50 °C (Please be careful when you use in 5 °C or less, so that there no freeze.)						
Manual operation		No manual operation.					

3 way valve: SHUT/Position-1, OPEN/Position-2.

OPTIONAL PARTS

Classification				PND	PSO	PSC
FR Unit (Regulator with Filter) TA2-FR (KONAN)				0	0	0
Limit Switch Box (Standard load signal)					0	0
Speed Controller (with One-touch Fitting) One set					0	0
Speed Controller (with One-touch Fitting) Two sets						
Speed Controller (with One-touch Fitting) Dual Speed Controller					0	0
Smart positioner for PSO / PSC (Except 03S)					0	0
Positioner OPEN by 20 mA. ↔ SHUT by 4 mA. / spring-return. (Airless SHUT)					0	
operation OPEN by 4 mA. ↔ SHUT by 20 mA. / spring-return. (Airless SHUT)					0	
(Input signal: SHUT by 4 mA. ↔ OPEN by 20 mA. / spring-return. (Airless OPEN)						0
4 to 20 mA) SHUT by 20 mA. ↔ OPEN by 4 mA. / spring-return. (Airless OPEN)						0
5-Port Solenoid Valve Voltage: 100V AC				0	0	0
(with speed controller, silencer, DIN connector) Voltage: 200V AC				0	0	0
Voltage: 110V AC				0	0	0
Voltage: 220V AC				0	0	0
VZ3190-□D-X213 Voltage: 24V DC				0	0	0

3 way valve: SHUT/Position-1, OPEN/Position-2.

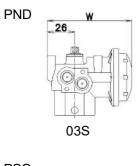
SOLENOID VALVE (Applicable Pneumatic Actuator: PND-05D)

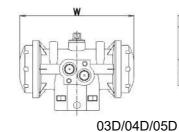
Classification (□: Volta	Code			
5-port Solenoid Valve	Lead wire	4N3S102K-L□	N43SL□	□: Voltage
Return (with bypass valve)	DIN Connector	4N3S102K-D□	N43SD□	1:100V AC
	DIN Connector (with lamp)	4N3S102K-N□	N43SN□	3 : 200V AC 5 : 24V DC
	Watertight cover	4N3S102K-W□	N43SW□	
5-port Explosion proo	Conduit	4N4S102K-E01-H□B0-R	4N4S01-□B0, NO	
solenoid valve Return (with bypass valve)	Flame proof packing (Cable size Φ9.5 to 10.4 mm)		4N4S10-□B0, NO	

Operate by solenoid valve (Normally Open)

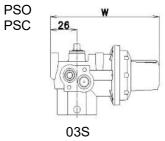
PND	SHUT by solenoid off. ↔ OPEN by power to solenoid.
PSO	OPEN by power to solenoid. ↔ SHUT by solenoid off / spring-return. (Airless SHUT)
PSC	SHUT by power to solenoid. ↔ OPEN by solenoid off / spring-return. (Airless OPEN)

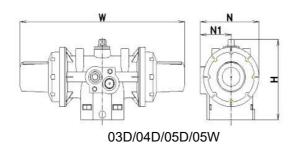
DIMENSIONS





	Н	W	N	N1
PND-03S	65	80	57	30
PND-03D	73	108	57	30
PND-04D	90	128	68	36
PND-05D	98	157	82	44





	Н	W	N	N1
PSO / C-03S	65	106	57	30
PSO / C-03D	73	160	57	30
PSO / C-04D	90	185	68	36
PSO / C-05D	98	247	82	44
PSO / C-05W	98	288	95	48