

PNEUMATIC TYPE AN

APPLICABLE TYPE
DIAPHRAGM VALVE



- LIGHTWEIGHT AND COMPACT SIZE DUE TO PLASTIC ACTUATOR
- AIR PIPING IS COMPATIBLE WITH NAMUR STANDARD.
- OPTIONS ARE EASILY REMOVABLE/REPLACEABLE AND CAN BE MOUNTED LATER (EXCEPT POSITIONER).
- EQUIPPED WITH STOPPER THAT CAN BE ADJUSTED AT FULL CLOSED POSITION.

BASIC SPECIFICATIONS

DOUBLE ACTING	ACTUATOR TYPE				UNIT
	AN-1DA	AN-2DA	AN-3DA	AN-4DA	
OPERATING PRESSURE	0.4-0.6				MPa
AIR CONSUMPTION	2.6	2.7	9.6	9.8	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4				

AIR TO OPEN	ACTUATOR TYPE				UNIT
	AN-1AO	AN-2AO	AN-3AO	AN-4AO	
OPERATING PRESSURE	0.4-0.6				MPa
AIR CONSUMPTION	0.8		3.4		NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4				

AIR TO CLOSE	ACTUATOR TYPE				UNIT
	AN-1AS	AN-2AS	AN-3AS	AN-4AS	
OPERATING PRESSURE	0.4-0.6				MPa
AIR CONSUMPTION	1.8	1.9	6.1	6.3	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4				

OPTION COMBINATION

COMBINATION NO.	1 *4	2 *4	3	4 *4	5	6	7	8	9
SOLENOID VALVE *1	○	—	—	○	○	—	○	—	—
FILTER REGULATOR	—	—	—	○	—	—	○	—	○
SPEED CONTROLLER *2	◎	○	—	◎	◎	○	◎	—	—
LIMIT SWITCH *3	—	—	○	—	○	○	○	—	—
POSITIONER (E/P, P/P)	—	—	—	—	—	—	—	○	○

*1 Equipped with a built-in speed controller and bypass valve.
 *2 ◎ indicates solenoid valve-dedicated type.
 *3 When using the limit switch at 1 to 100 mA or 5 to 30V, contact our sales office in your area.
 *4 The "full opening adjustment" and "manual override (air to open only)" are available only for the combination No. 1, 2 and 4.

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SOLENOID VALVE NAMUR	KONAN	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • POWER SOURCE AC100V, AC110V, AC200V, AC220V, DC24V
FILTER REGULATOR	KONAN	
SPEED CONTROLLER	KONAN	* Since a solenoid valve has a built-in exhaust valve, when a solenoid valve is mounted, no speed controller is necessary.
BYPASS VALVE (SPEED CONTROLLER)	KONAN	
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
POSITIONER	YTC	<ul style="list-style-type: none"> • E/P: INPUT SIGNAL CURRENT DC 4-20 mA • P/P: INPUT SIGNAL AIR PRESSURE 0.02 - 0.1 MPa
MANUAL OVERRIDE	ASAHI YUKIZAI	
FULL OPENING ADJUSTMENT	ASAHI YUKIZAI	

PNEUMATIC

TYPE AV
(MODEL: AV)

APPLICABLE TYPE

DIAPHRAGM VALVE

- EQUIPPED WITH STOPPER THAT CAN BE ADJUSTED AT FULL CLOSED POSITION.
- AIR PIPING IS COMPATIBLE WITH NAMUR STANDARD.



BASIC SPECIFICATIONS

DOUBLE ACTING	ACTUATOR TYPE							UNIT
	AV-1DA	AV-2DA	AV-3DA	AV-4DA	AV-5DA	AV-6DA	AV-7DA	
OPERATING PRESSURE	0.4-0.6							MPa
AIR CONSUMPTION	10.3	11.9	20.7	36.6	67.3	87.3	214	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4				Rc3/8			

AIR TO OPEN	ACTUATOR TYPE					UNIT
	AV-1AO	AV-2AO	AV-3AO	AV-4AO	AV-5AO	
OPERATING PRESSURE	0.4-0.6					MPa
AIR CONSUMPTION	10.6	15.9	34.3	55.6	84.2	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4					

AIR TO CLOSE	ACTUATOR TYPE					UNIT
	AV-1AS	AV-2AS	AV-3AS	AV-4AS	AV-5AS	
OPERATING PRESSURE	0.4-0.6					MPa
AIR CONSUMPTION	9.4	11.7	26.5	38.4	60.5	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4					

OPTION COMBINATION

DIAPHRAGM VALVE TYPE 14 (65 mm - 100 mm)

COMBINATION NO.	1	2	3	4	5	6	7	8	9
SOLENOID VALVE *1	○	—	—	○	○	—	○	—	—
FILTER REGULATOR	—	—	—	○	—	—	○	—	○
SPEED CONTROLLER	○	○	—	○	○	○	○	—	—
LIMIT SWITCH *2	—	—	○	—	○	○	○	—	—
POSITIONER (E/P, P/P)	—	—	—	—	—	—	—	○	○

DIAPHRAGM VALVE TYPE 15 / 72

COMBINATION NO.	1	2	3	4	5	6	7	8	9	10	11	12	13
SOLENOID VALVE *1	○	—	—	○	○	○	—	○	○	○	○	—	—
FILTER REGULATOR	—	—	—	○	—	—	—	○	○	—	○	—	○
SPEED CONTROLLER	—	○	—	—	○	—	○	○	—	○	○	—	—
LIMIT SWITCH *2	—	—	○	—	—	○	○	—	○	○	○	—	—
POSITIONER (E/P, P/P)	—	—	—	—	—	—	—	—	—	—	—	○	○

*1 Equipped with a built-in speed controller and bypass valve.

*2 When using the limit switch at 1 to 100 mA or 5 to 30V, contact our sales office in your area.

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SOLENOID VALVE NAMUR	KONAN	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • POWER SOURCE AC100V, AC110V, AC200V, AC220V, DC24V * 40-150 mm is compatible with NAMUR standard.
FILTER REGULATOR	KONAN	
SPEED CONTROLLER	KONAN	* Since a solenoid valve has a built-in exhaust valve, when a solenoid valve is mounted, no speed controller is necessary.
BYPASS VALVE (SPEED CONTROLLER)	KONAN	
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
POSITIONER	YTC	<ul style="list-style-type: none"> • E/P: INPUT SIGNAL CURRENT DC 4-20 mA • P/P: INPUT SIGNAL AIR PRESSURE 0.02 - 0.1 MPa
MANUAL OVERRIDE	ASAHI YUKIZAI	
FULL OPENING ADJUSTMENT	ASAHI YUKIZAI	
SPECIAL PAINTING (ACTUATOR ONLY)	ASAHI YUKIZAI	<ul style="list-style-type: none"> • POLYURETHANE PAINT



PNEUMATIC
TYPE AV
(MODEL: AVU, AVF)

APPLICABLE TYPE
CONTROL VALVE

- OUR ORIGINAL SPECIAL PLUG SHAPE REDUCES EFFECTS OF FLUID VISCOSITY AND ALLOWS FOR HIGHLY ACCURATE FLOW CONTROL.

BASIC SPECIFICATIONS

DOUBLE ACTING	ACTUATOR TYPE						UNIT
	U-PVC BODY	AVU-1DA	AVU-2DA	AVU-3DA	AVU-4DA	AVU-5DA	
	PVDF BODY	AVF-1DA	AVF-2DA	—	—	—	
OPERATING PRESSURE				0.4-0.7			MPa
AIR CONSUMPTION		0.6	0.7	2.1		6.3	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE				Rc1/4			

AIR TO OPEN	ACTUATOR TYPE						UNIT
	U-PVC BODY	AVU-1AO	AVU-2AO	AVU-3AO	AVU-4AO	AVU-5AO	
	PVDF BODY	AVF-1AO	AVF-2AO	—	—	—	
OPERATING PRESSURE				0.4-0.7			MPa
AIR CONSUMPTION		1.3	1.5	2.7	5.5	7.9	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE				Rc1/4			

OPTION COMBINATION

COMBINATION NO.	1	2
POSITIONER (E/P)	●	—
POSITIONER (P/P)	—	●
FILTER REGULATOR	○	○

● indicates that the feature is provided as standard.

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
FILTER REGULATOR	KONAN	
POSITIONER	YTC	<ul style="list-style-type: none"> • E/P: INPUT SIGNAL CURRENT DC 4-20 mA • P/P: INPUT SIGNAL AIR PRESSURE 0.02 - 0.1 MPa
SPECIAL PAINTING (ACTUATOR ONLY)	ASAHI YUKIZAI	<ul style="list-style-type: none"> • POLYURETHANE PAINT

PNEUMATIC

TYPE AI

APPLICABLE TYPE

DIAPHRAGM VALVE

- HAS SUFFICIENT DURABILITY TO WITHSTAND 500,000 CYCLES OF OPENING/CLOSING.
- CAN BE USED IN LIMITED PIPING SPACE.
- ALL-PLASTIC BODY ENSURES EXCELLENT CORROSION RESISTANCE.



BASIC SPECIFICATIONS

DOUBLE ACTING	ACTUATOR TYPE					UNIT
	AI-1DA	AI-2DA	AI-3DA	AI-4DA	AI-5DA	
OPERATING PRESSURE	0.4-0.6					MPa
AIR CONSUMPTION	0.89		1.29	4.35	4.80	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4					

AIR TO OPEN (0.7Mpa Spec)	ACTUATOR TYPE					UNIT
	AI-1AO	AI-2AO	AI-3AO	AI-4AO	AI-5AO	
OPERATING PRESSURE	0.4-0.6					MPa
AIR CONSUMPTION	0.35		0.49	1.73	1.98	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4					

AIR TO OPEN (1.0Mpa Spec)	ACTUATOR TYPE					UNIT
	AI-1AO-P/E*	AI-2AO-P/E*	AI-3AO-P/E*	AI-4AO-P/E*	AI-5AO-P/E*	
OPERATING PRESSURE	0.5-0.6					MPa
AIR CONSUMPTION	0.42		0.59	2.08	2.37	NI/OPEN & CLOSE (0.5 MPa)
AIR SUPPLY BORE	Rc1/4					

* P:PTFE DIAPHRAGM E:EPDM DIAPHRAGM

AIR TO CLOSE	ACTUATOR TYPE					UNIT
	AI-1AS	AI-2AS	AI-3AS	AI-4AS	AI-5AS	
OPERATING PRESSURE	0.4-0.6					MPa
AIR CONSUMPTION	0.54		0.79	2.63	2.82	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4					

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5	6	7	8	9
SOLENOID VALVE	○	—	—	○	○	—	○	—	—
FILTER REGULATOR	—	—	—	○	—	—	○	—	○
SPEED CONTROLLER *1	◎	○	—	◎	◎	○	◎	—	—
LIMIT SWITCH *2	—	—	○	—	○	○	○	—	—
POSITIONER (E/P, P/P)	—	—	—	—	—	—	—	○	○

*1 ◎ indicates solenoid valve-dedicated type.

*2 When using the limit switch at 1 to 100 mA or 5 to 30V, contact our sales office in your area.

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SOLENOID VALVE NAMUR	KONAN	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • POWER SOURCE AC100V, AC110V, AC200V, AC220V, DC24V
FILTER REGULATOR	KONAN	
SPEED CONTROLLER	KONAN	* Since a solenoid valve has a built-in exhaust valve, when a solenoid valve is mounted, no speed controller is necessary.
BYPASS VALVE (SPEED CONTROLLER)	KONAN	
LIMIT SWITCH BOX	Rotech	<ul style="list-style-type: none"> • WATER PROOF
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
POSITIONER	YTC	<ul style="list-style-type: none"> • E/P: INPUT SIGNAL CURRENT DC 4-20 mA • P/P: INPUT SIGNAL AIR PRESSURE 0.02 - 0.1 MPa
MANUAL OVERRIDE	ASAHI YUKIZAI	
FULL OPENING ADJUSTMENT	ASAHI YUKIZAI	

PNEUMATIC	TYPE AD	APPLICABLE TYPE
		DIAPHRAGM VALVE



- COMPACT BODY ALLOWS FOR USE IN LIMITED PIPING SPACE.
- EXCELLENT OPEN/CLOSE DURABILITY TO WITHSTAND MORE THAN 1,000,000 CYCLES OF OPENING AND CLOSING
- ALL-PLASTIC BODY ENSURES EXCELLENT CORROSION RESISTANCE.

BASIC SPECIFICATIONS

DOUBLE ACTING	SIZE					UNIT
	15mm(1/2inch)	20mm(3/4inch)	25mm(1inch)	40mm(1 1/2inch)	50mm(2inch)	
OPERATING PRESSURE	0.3-0.4					MPa
AIR CONSUMPTION	0.14	0.32		1.24	2.19	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/8					

AIR TO OPEN	SIZE					UNIT
	15mm(1/2inch)	20mm(3/4inch)	25mm(1inch)	40mm(1 1/2inch)	50mm(2inch)	
OPERATING PRESSURE	0.4-0.5					MPa
AIR CONSUMPTION	0.12	0.26		1.02	1.78	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/8					

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5*	6*
SPEED CONTROLLER	—	○	—	○	—	○
FULL OPENING ADJUSTMENT	—	—	○	○	○	○
INDICATOR	●	●	—	—	◎	◎

● indicates that the feature is provided as standard.
 ◎ represents an indicator for full opening adjustment.
 * Only applicable to the sizes of 15 to 25 mm.

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SPEED CONTROLLER	KONAN	—
WITH FULL OPENING ADJUSTMENT	ASAHI YUKIZAI	—
FULL OPENING ADJUSTMENT (WITH INDICATOR)	ASAHI YUKIZAI	—

PNEUMATIC	TYPE AP	APPLICABLE TYPE
		DIAPHRAGM VALVE



- LIGHTWEIGHT AND COMPACT SIZE DUE TO PLASTIC ACTUATOR
- AIR PIPING IS COMPATIBLE WITH NAMUR STANDARD.
- ALL-PLASTIC BODY ENSURES EXCELLENT CORROSION RESISTANCE.

BASIC SPECIFICATION		ACTUATOR TYPE			UNIT
		AP-1	AP-2	AP-3	
		VALVE SIZE (mm)			
		65	80	100	
OPERATING PRESSURE	DOUBLE ACTING, AIR TO OPEN, AIR TO CLOSE	0.4-0.5			MPa
AIR CONSUMPTION	DOUBLE ACTING	22.1	23.7	30.4	N ℓ /OPEN& CLOSE (0.4MPa)
	AIR TO OPEN (0.6MPa)	7.4	7.7	10.6	
	AIR TO OPEN (1.0MPa)	7.4	9.3	15.1	
	AIR TO CLOSE	7.0	8.3	17.2	
AIR SUPPLY BORE	DOUBLE ACTING, AIR TO OPEN, AIR TO CLOSE	Rc 1/4			
ENVIRONMENT TEMPERATURE	DOUBLE ACTING, AIR TO OPEN, AIR TO CLOSE	-10-50			°C

ACTUATOR SELECTION CHART

SIZE	DOUBLE ACTING	ACTUATOR		
		AIR TO OPEN		AIR TO CLOSE
		0.6MPa	1.0MPa	
65mm (2 1/2inch)	AP-1DA	AP-1AO-06	AP-1AO-10	AP-1AS
80mm (3inch)	AP-2DA	AP-2AO-06	-	AP-2AS
	-	-	AP-2AO-10	-
100mm (4inch)	AP-3DA	AP-3AO-06	-	-
	-	-	AP-3AO-10	AP-3AS

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5	6	7	8	9	10	11	12
SOLENOID VALVE	○				○	○		○				
FILTER REGULATOR					○			○				
SPEED CONTROLLER	◎	○		◎	◎	◎	○	◎		○		
LIMIT SWITCH BOX			○			○	○	○				
LIMIT SWITCH			○			○	○	○				
BYPASS VALVE (SPEED CONTROLLER)	◎			○	◎	◎		◎				
POSITIONER (E/P, P/P)									○	○		
MANUAL OVERRIDE											○	
FULL OPENING ADJUSTMENT												○
METAL INSERT PROVIDED (WITH ENSAT)	(M) STANDARD											

* ◎ equipped with ○

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SOLENOID VALVE NAMUR	KONAN	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • POWER SOURCE AC100V, AC110V, AC200V, AC220V, DC24V
FILTER REGULATOR	KONAN	—
SPEED CONTROLLER	KONAN	* Since a solenoid valve has a built-in exhaust valve, when a solenoid valve is mounted, no speed controller is necessary.
LIMIT SWITCH BOX	Rotech	<ul style="list-style-type: none"> • WATER PROOF
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
POSITIONER	YTC	<ul style="list-style-type: none"> • E/P: INPUT SIGNAL CURRENT DC4-20mA • P/P: INPUT SIGNAL AIR PRESSURE 0.02-0.1MPa
MANUAL OVERRIDE	ASAHI YUKIZAI	—
FULL OPENING ADJUSTMENT	ASAHI YUKIZAI	—

PNEUMATIC	TYPE AA	APPLICABLE TYPE
		BALL VALVE



- LIGHTWEIGHT AND COMPACT SIZE DUE TO PLASTIC ACTUATOR
- AIR PIPING IS COMPATIBLE WITH NAMUR STANDARD.
- PPG (BLACK), HIGHLY WEATHER RESISTANT PLASTIC, IS USED FOR THE MOUNTING BASE.

BASIC SPECIFICATIONS

DOUBLE ACTING	ACTUATOR TYPE		UNIT
	PPW	PP00	
ANGLE ADJUSTMENT	No angle adjustment is available.		
OPERATING PRESSURE	0.4-0.6		MPa
AIR CONSUMPTION	0.6	1.3	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4		

AIR TO OPEN AIR TO CLOSE	ACTUATOR TYPE		UNIT
	PP00S	PP10S	
ANGLE ADJUSTMENT	No angle adjustment is available.		
OPERATING PRESSURE	0.4-0.6		MPa
AIR CONSUMPTION	0.7	1.7	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/4		

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5	6	7
SOLENOID VALVE *1	○	—	—	○	○	—	○
FILTER REGULATOR	—	—	—	○	—	—	○
SPEED CONTROLLER *2	◎	○	—	◎	◎	○	◎
LIMIT SWITCH *3	—	—	○	—	○	○	○

*1 Equipped with a built-in speed controller and bypass valve.
 *2 ◎ indicates solenoid valve-dedicated type.
 *3 When using the limit switch at 1 to 100 mA or 5 to 30V, contact our sales office in your area.

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SOLENOID VALVE NAMUR	KONAN	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • POWER SOURCE AC100V, AC110V, AC200V, AC220V, DC24V
FILTER REGULATOR	KONAN	
SPEED CONTROLLER	KONAN	* Since a solenoid valve has a built-in exhaust valve, when a solenoid valve is mounted, no speed controller is necessary.
BYPASS VALVE (SPEED CONTROLLER)	KONAN	
LIMIT SWITCH BOX	PRISMA	<ul style="list-style-type: none"> • WATER PROOF
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	<ul style="list-style-type: none"> • WATER PROOF, EXPLOSION PROOF • OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
SPECIAL FITTING	ASAHI YUKIZAI	<ul style="list-style-type: none"> • SUS304, U-PVC

PNEUMATIC

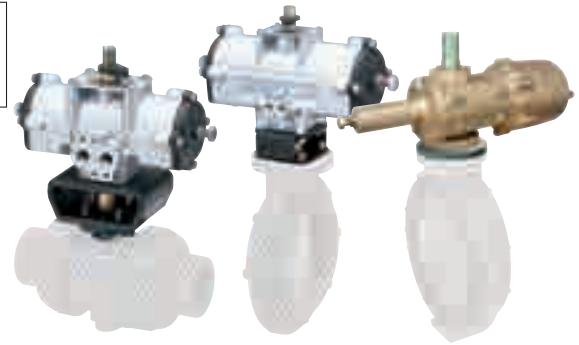
**TYPE TA,
TYPE TW**

APPLICABLE TYPE

BALL VALVE

BUTTERFLY VALVE

ROTARY DAMPER



- HORIZONTAL ACTUATOR CAN REDUCE PIPING SPACE.
- OPTIONS ARE EASILY REMOVABLE/REPLACEABLE AND CAN BE MOUNTED LATER (EXCEPT POSITIONER).
- AIR PIPING IS COMPATIBLE WITH NAMUR STANDARD.

BASIC SPECIFICATIONS

DOUBLE ACTING	ACTUATOR TYPE									UNIT
	TA2A-0402D	TA2A-050D	TA2A-063D	TA2A-080D	TA2A-100D	TA2A-125D	TA2A-160D	TA-200D	TW-250D	
ANGLE ADJUSTMENT	No angle adjustment is available. ±5°									
OPERATING PRESSURE	0.4-0.7									MPa
AIR CONSUMPTION	0.5	0.9	1.7	3.2	6.6	13.3	27.1	56.8	99	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE	Rc1/8	Rc1/4						Rc3/8		

AIR TO OPEN AIR TO CLOSE	ACTUATOR TYPE								UNIT	
	TA2A-0402R	TA2A-050R	TA2A-063R	TA2A-080R	TA2A-100R2	TA2A-125R2	TA2A-160R2	TA-200R		
ANGLE ADJUSTMENT	No angle adjustment is available. ±5°									
OPERATING PRESSURE	0.4-0.7								MPa	
AIR CONSUMPTION	0.8	1.7	3.3	6.1	12.8	21.6	42.7	68.4	NI/OPEN & CLOSE (0.4 MPa)	
AIR SUPPLY BORE	Rc1/4	Rc1/4						Rc3/8		

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5	6	7	8	9
SOLENOID VALVE *1	○	—	—	○	○	—	○	—	—
FILTER REGULATOR	—	—	—	○	—	—	○	—	○
SPEED CONTROLLER *2	◎	○	—	◎	◎	○	◎	—	—
LIMIT SWITCH *3	—	—	○	—	○	○	○	—	—
POSITIONER (E/P, P/P)	—	—	—	—	—	—	—	○	○

*1 Equipped with a built-in speed controller and bypass valve.
 *2 ◎ indicates solenoid valve-dedicated type.
 *3 When using the limit switch at 1 to 100 mA or 5 to 30V, contact our sales office in your area.

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SOLENOID VALVE NAMUR	KONAN	• WATER PROOF, EXPLOSION PROOF • POWER SOURCE AC100V, AC110V, AC200V, AC220V, DC24V
FILTER REGULATOR	KONAN	
SPEED CONTROLLER	KONAN	* Since a solenoid valve has a built-in exhaust valve, when a solenoid valve is mounted, no speed controller is necessary.
BYPASS VALVE (SPEED CONTROLLER)	KONAN	
LIMIT SWITCH BOX	KONAN	• WATER PROOF
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	• WATER PROOF - EXPLOSION PROOF - OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
PROXIMITY SWITCH	AZBIL (formerly YAMATAKE)	• OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
POSITIONER	YTC	• E/P: INPUT SIGNAL CURRENT DC 4-20 mA • P/P: INPUT SIGNAL AIR PRESSURE 0.02 - 0.1 MPa
MANUAL OPERATION LEVER	ASAHI YUKIZAI	
MANUAL OVERRIDE	KONAN	
FULL OPENING ADJUSTMENT (OPENING DEGREE ADJUSTING BOLT)	ASAHI YUKIZAI	
SPECIAL PAINTING (ACTUATOR ONLY)	KONAN	• EPOXY PAINT, POLYURETHANE PAINT
SPECIAL FITTING	ASAHI YUKIZAI	• SUS304

PNEUMATIC	TYPE VC	APPLICABLE TYPE BALL VALVE
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- LIGHTWEIGHT, COMPACT SIZE AND HIGH CORROSION RESISTANCE DUE TO PLASTIC ACTUATOR
- THE PRODUCT LINE ALLOWS FOR SELECTION ACCORDING TO THE FLUID TO BE USED. BALL VALVE TYPE 21 FOR CHEMICAL SOLUTION LINES AND WATER BALL VALVE FOR WATER/SEA WATER LINES CAN BE SELECTIVELY USED, WHICH ALSO CONTRIBUTES TO TOTAL COST REDUCTION.

BASIC SPECIFICATIONS

DOUBLE ACTING	ACTUATOR TYPE			UNIT
	PND-03S	PND-03D	PND-04D	
OPERATING PRESSURE		0.4-0.7		MPa
AIR CONSUMPTION	0.05	0.08	0.19	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE		Rc1/8		

AIR TO OPEN AIR TO CLOSE	ACTUATOR TYPE			UNIT
	PSO-03D	PSO-04D	PSO-04W	
OPERATING PRESSURE		0.4-0.7		MPa
AIR CONSUMPTION	0.04	0.10	0.17	NI/OPEN & CLOSE (0.4 MPa)
AIR SUPPLY BORE		Rc1/8		

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5	
SOLENOID VALVE *1	○	—	—	○	—	*1 Dedicated type for NVC model by SMC (with solenoid valve + silencer-equipped exhaust throttle valve dust-proof DIN connector) *2 ◎ indicates solenoid valve-dedicated type. *3 LS box by NVC (dedicated type)
SPEED CONTROLLER *2	◎	○	—	◎	○	
LIMIT SWITCH *3	—	—	○	○	○	

OPTION LIST

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SOLENOID VALVE (EXHAUST THROTTLE VALVE WITH SILENCER)	SMC	<ul style="list-style-type: none"> • WATER PROOF • POWER SOURCE AC100V, AC110V, AC200V, AC220V, DC24V
SPEED CONTROLLER	SMC	* Since a solenoid valve has a built-in exhaust valve, when a solenoid valve is mounted, no speed controller is necessary.
LIMIT SWITCH BOX	NIPPON VALVE CONTROLS	<ul style="list-style-type: none"> • WATER PROOF