

- 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.

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

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

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

COMBINATION NO.	1 *4	2 *4	3	4 *4	5	6	7	8	9
SOLENOID VALVE *1	0	_	—	0	0	_	0	_	—
FILTER REGULATOR	—	_	—	0	—	_	0	_	0
SPEED CONTROLLER *2	O	0	—	O	O	0	O	_	—
LIMIT SWITCH *3	_	_	0	—	0	0	0	_	—
POSITIONER (E/P, P/P)								0	0

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	AZBIL (formerly YAMATAKE)	WATER PROOF, EXPLOSION PROOF 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 OVERRIDE	ASAHI YUKIZAI	
FULL OPENING ADJUSTMENT	ASAHI YUKIZAI	





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	UNIT							
DOUBLE ACTING	AV-1DA	AV-2DA	AV-3DA	AV-4DA	AV-5DA	AV-6DA	AV-7DA	UNIT
OPERATING PRESSURE		MPa						
AIR CONSUMPTION	10.3	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								
	AV-1AO	AV-2AO	AV-3AO	AV-4AO	AV-5AO	UNIT			
OPERATING PRESSURE		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		LINUT							
AIR TO CLOSE	AV-1AS	AV-2AS	AV-3AS	AV-4AS	AV-5AS	UNIT			
OPERATING PRESSURE		0.4-0.6							
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	0	—	—	0	0	—	0	—	_
FILTER REGULATOR	—	—	_	0	—	—	0	—	0
SPEED CONTROLLER	0	0	_	0	0	0	0	—	_
LIMIT SWITCH *2	—	—	0	—	0	0	0	—	_
POSITIONER (E/P, P/P)	—	—	—	—	—	—	—	0	0

DIAPHRAGM VALVE TYPE 15 / 72

COMBINATION NO.	1	2	3	4	5	6	7	8	9	10	11	12	13
SOLENOID VALVE *1	0	—	—	0	0	0	—	0	0	0	0	—	—
FILTER REGULATOR	—	—	—	0	—	—	—	0	0	—	0	—	0
SPEED CONTROLLER	—	0	—	—	0	—	0	0	—	0	0	—	_
LIMIT SWITCH *2	—	—	0	—	—	0	0	—	0	0	0	—	_
POSITIONER (E/P, P/P)	—	—	—	—	—	—	—	—	_	—	—	0	0

*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	MANUFACTURER	BASIC SPECIFICATIONS
SOLENOID VALVE NAMUR	KONAN	 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)	WATER PROOF, EXPLOSION PROOF 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 OVERRIDE	ASAHI YUKIZAI	
FULL OPENING ADJUSTMENT	ASAHI YUKIZAI	
SPECIAL PAINTING (ACTUATOR ONLY)	ASAHI YUKIZAI	POLYURETHANE PAINT







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



BASIC SPECIFICATIONS

DOUBLE ACTING U-PVC	BODY AVU-1DA	AVU-2DA	UNIT				
PVDF I	BODY AVF-1DA	AVF-2DA	—	—	—		
OPERATING PRESSURE		0.4-0.7					
AIR CONSUMPTION	0.6	0.7	0.7 2.1 6.3				
AIR SUPPLY BORE		Rc1/4					

AIR TO OPEN U-PVC BODY		AVU-1AO	AVU-2AO	AVU-3AO	AVU-4AO	AVU-5AO	UNIT
	PVDF BODY	AVF-1AO	AVF-2AO	—	—	—	
OPERATING PRES	SURE			0.4-0.7			MPa
AIR CONSUMPTION		1.3	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	0	0

lace indicates that the feature is provided as standard.

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
FILTER REGULATOR	KONAN	
POSITIONER	YTC	 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	POLYURETHANE PAINT



- 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.



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

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

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

* P:PTFE DIAPHRAGM E:EPDM DIAPHRAGM

AIR TO CLOSE		ACTUATOR TYPE								
AIN TO CLOSE	AI-1AS	AI-2AS	AI-3AS	AI-4AS	AI-5AS	UNIT				
OPERATING PRESSURE			0.4-0.6	MPa						
AIR CONSUMPTION	0.	54	0.79	2.82	NI/OPEN & CLOSE (0.4 MPa)					
AIR SUPPLY BORE			Rc1/4							

COMBINATION NO.	1	2	3	4	5	6	7	8	9
SOLENOID VALVE	0	—	—	0	0	_	0	—	_
FILTER REGULATOR	—	—	_	0	—	_	0	—	0
SPEED CONTROLLER *1	O	0	_	O	O	0	O	—	—
LIMIT SWITCH *2	_	—	0	_	0	0	0	—	—
POSITIONER (E/P, P/P)	_	—	—	—	_	—	_	0	0

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	Rotech	WATER PROOF
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	WATER PROOF, EXPLOSION PROOF 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 OVERRIDE	ASAHI YUKIZAI	
FULL OPENING ADJUSTMENT	ASAHI YUKIZAI	



- 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.



DOUBLE ACTING		UNIT								
DOUBLE ACTING	15mm(1/2inch)	20mm(3/4inch)	25mm(1inch)	40mm(1 1/2inch)	UNIT					
OPERATING PRESSURE			0.3-0.4			MPa				
AIR CONSUMPTION	0.14	0.:	0.32 1.24 2.19 N							
AIR SUPPLY BORE		Rc1/8								

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

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5*	6*	
SPEED CONTROLLER	—	0	—	0	—	0	
FULL OPENING ADJUSTMENT	_	—	0	0	0	0	• • inc
INDICATOR			—	—	O	O	© rep * Only

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



APPLICABLE TYPE -

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

BASIC SPECI	FICATION	ACT AP-1 VAL\	UNIT		
		65	80	100	
OPERATING PRESSURE	DOUBLE ACTING, AIR TO OPEN, AIR TO CLOSE		MPa		
	DOUBLE ACTING	22.1	23.7	30.4	
AIR	AIR TO OPEN (0.6MPa)	7.4	7.7	10.6	N ℓ /OPEN& CLOSE (0.4MPa)
CONSUMPTION	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

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

COMBINATION NO.	1	2	3	4	5	6	7	8	9	10	11	12
SOLENOID VALVE	0				0	0		0				
FILTER REGULATOR					0			0				
SPEED CONTROLLER	O	0		O	O	O	0	O		0		
LIMIT SWITCH BOX			0			0	0	0				
LIMIT SWITCH			0			0	0	0				
BYPASS VALVE (SPEED CONTROLLER)	O			0	O	O		O				
POSITIONER (E/P, P/P)									0	0		
MANUAL OVERRIDE											0	
FULL OPENING ADJUSTMENT												0
METAL INSERT PROVIDED (WITH ENSAT)	(W) STANDARD								-			

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.
LIMIT SWITCH BOX	Rotech	• WATER PROOF
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	WATER PROOF, EXPLOSION PROOF OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
POSITIONER	YTC	 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	





• 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

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

AIR TO OPEN	ACTUAT						
AIR TO CLOSE	PP00S	PP10S	UNIT				
ANGLE ADJUSTMENT	No angle adjustr						
OPERATING PRESSURE	0.4	0.4-0.6					
AIR CONSUMPTION	0.7	1.7	NI/OPEN & CLOSE (0.4 MPa)				
AIR SUPPLY BORE	Rc	1/4					

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5	6	7
SOLENOID VALVE *1	0	—	—	0	0	—	0
FILTER REGULATOR	—	—	—	0	—	—	0
SPEED CONTROLLER *2	O	0	—	0	O	0	O
LIMIT SWITCH *3	_	—	0	—	0	0	0

*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	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	PRISMA	• WATER PROOF
LIMIT SWITCH	AZBIL (formerly YAMATAKE)	WATER PROOF, EXPLOSION PROOF OPEN: 1 pc, CLOSE: 1 pc, OPEN/CLOSE: 2 pcs
SPECIAL FITTING	ASAHI YUKIZAI	• SUS304, U-PVC







- 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.



		ACTUATOR TYPE									
DOUBLE ACTING	TA2A- 0402D	TA2A-050D	TA2A-063D	TA2A-080D	TA2A-100E	DTA2A-125D	TA2A-160D	TA-200D	TW-250D	UNIT	
ANGLE ADJUSTMENT	No angle adjustment is available.	ustment ±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	TA2A-0402R	TA2A-050R	TA2A-063R	TA2A-080R	TA2A-100R2	TA2A-125R2	TA2A-160R2	TA-200R	UNIT	
ANGLE ADJUST- MENT	No angle adjustment is available.	adjustment is ±5								
OPERATING PRESSURE			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 Rc3/8									

OPTION COMBINATION

COMBINATION NO.	1	2	3	4	5	6	7	8	9	
SOLENOID VALVE *1	0	—	—	0	0	_	0	—	—	
FILTER REGULATOR	—	—	—	0	—	_	0	—	0	
SPEED CONTROLLER *2	O	0	—	O	O	0	O	—	—	
LIMIT SWITCH *3	—	—	0	—	0	0	0	—	—	*1 Equippe *2 © indic
POSITIONER (E/P, P/P)	_	_	—	_	_	—	_	0	0	*3 When i contac

bed with a built-in speed controller and bypass valve. cates solenoid valve-dedicated type. using the limit switch at 1 to 100 mA or 5 to 30V, ct our sales office in your area.

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



- APPLICABLE TYPE-

- 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

		ACTUATOR TYPE						
DOUBLE ACTING	PND-03S	PND-03D	PND-04D	UNIT				
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		ACTUATOR TYPE					
AIR TO CLOSE	PSO-03D	PSO-04D	PSO-04W	UNIT			
OPERATING PRESSURE		0.4-0.7	<u>.</u>	MPa			
AIR CONSUMPTION	0.04	0.10	0.17	NI/OPEN & CLOSE (0.4 MPa)			
AIR SUPPLY BORE		Rc1/8					

COMBINATION NO.	1	2	3	4	5	
SOLENOID VALVE *1	0	_	—	0	—	*1 Dedicated type for NVC model by SMC (with solenoid valve +
SPEED CONTROLLER *2	0	0	_	0	0	 silencer-equipped exhaust throttle valve dust-proof DIN connector)
LIMIT SWITCH *3	_	_	0	0	0	*2 © indicates solenoid valve-dedicated type. *3 LS box by NVC (dedicated type)

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS				
SOLENOID VALVE (EXHAUST THROTTLE VALVE WITH SILENCER)	SMC	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	WATER PROOF				



- EQUIPPED WITH FAILSAFE LIMIT SWITCH IN ADDITION TO STANDARD ON/OFF LIMIT SWITCH. OUTPUT CONTACT LIMIT SWITCH IS ALSO PROVIDED AS STANDARD.
- LARGE OPENING DISPLAY PROVIDES CLEAR INDICATION.
- EQUIPPED WITH MANUAL OVERRIDE FUNCTION THAT ALLOWS FOR MANUAL OPERATION BEFORE ENERGIZATION AND DURING POWER OUTAGE.

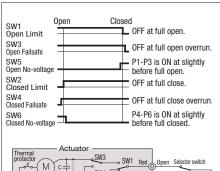


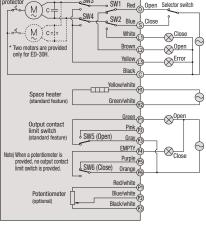
						AC	UATOR T	YPE					
	ED-11H						ED-21H		ED-	30H			
BASIC SPECIFIC	ATIONS					VAV	LVE SIZE	(mm)					UNIT
		15	20	25	32	40	50	65	80	100	125	150	
CYCLE TIME	50Hz	20		2	4	43	51	38	47	56	4	8	s
GTOLE TIME	60Hz	16	i	2	0	36	43	32	39	47	4	0	S
PROTECTIVE STRU	JCTURE					JIS C09	20 WATEF	R PROOF					
MOTOR STARTING CURRENT	AC100V			0.69	/0.7				2.3/2.2		5.0	/4.8	Α
50/60Hz	AC200V			0.3/	/0.3				1.15/1.1		2.5	/2.4	A
MOTOR RATED CURRENT	AC100V			0.5/	/0.5				1.5/1.8		3.0	/3.0	A
50/60Hz	AC200V			0.25/	/0.25				0.8/0.8		1.5	/1.5	A
NUMBER OF REVOLUTIONS OPERATING HANDLE	OF MANUAL	21		2	5	44	52	76	94	112	1	28	
POWER CON-	AC100V			47	.5	•			142.5		2	85	w
SUMPTION	AC200V			47	.5				143		2	85	~~~
CABLE CONNECT	OR SIZE					2-G3/4					4-0	33/4	
MOTOR RATED OU	JTPUT			2	0				60		1	40	W
MOTOR INSULATION	ON TYPE						E CLASS						
MOTOR RATED TIM	ИE	30						min					
LIMIT SWITCH CAI	PACITY		AC250V 10A										
SPACE HEATER O	UTPUT		10W(100V: 1kΩ, 200V: 4kΩ) 1kΩ 10W						10W				
POTENTIOMETER MAX. APPL	LIED VOLTAGE					8						8	V

COMBINATION NO.	1
SPACE HEATER	•
OUTPUT CONTACT LIMIT SWITCH	

 indicates that the feature is provided as standard.
 For the specifications of positioner and potentiometer (optional), contact us. When a potentiometer is provided, the output contact limit switch is not provided.

OPTION LIST		MANUFACTURER	BASIC SPECIFICATIONS			
	SPACE HEATER	SHINWA CONTROLS	STANDARD EQUIPMENT			
	OUTPUT CONTACT LIMIT SWITCH	AZBIL	INCLUDED AS STANDARD.			
	POTENTIOMETER	SHINWA CONTROLS	 RESISTANCE: 500Ω, 1000Ω, 2000Ω, 5000Ω, 10000Ω Note) When a potentiometer is provided, the output contact limit switch is not provided. 			
	MANUAL OVERRIDE	SHINWA CONTROLS	INCLUDED AS STANDARD.			
	SPECIAL PAINTING (ACTUATOR ONLY)	ASAHI YUKIZAI	• EPOXY PAINT, POLYURETHANE PAINT			



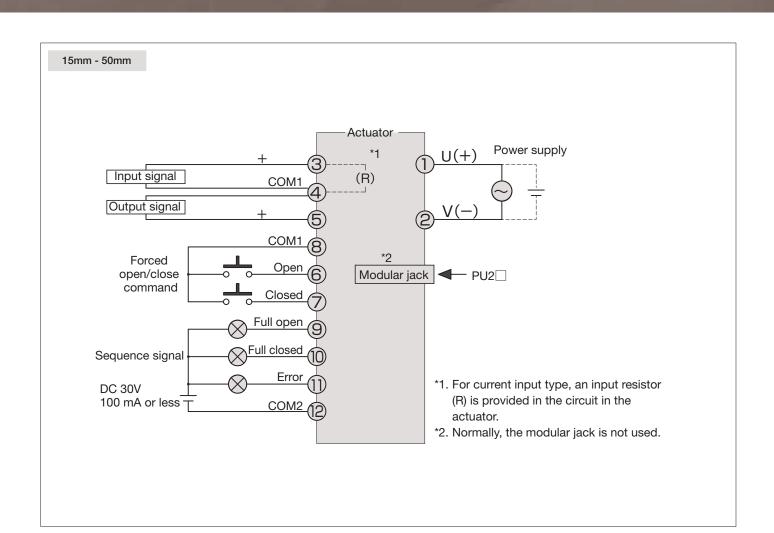


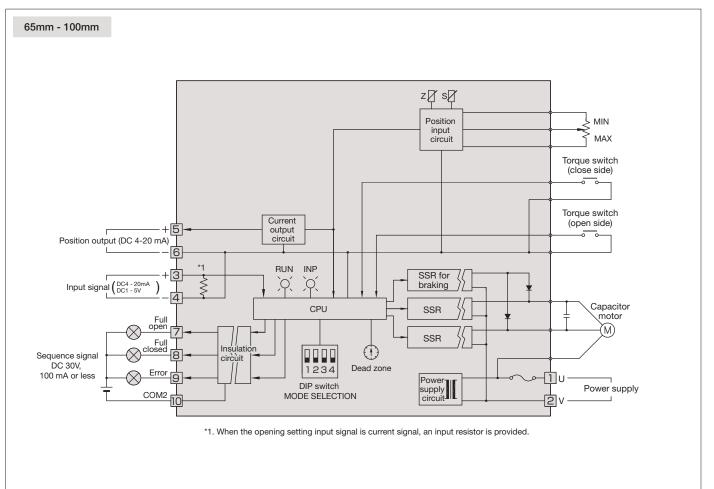
• IDEAL FOR CONTROL.



					A	CTUATOR T	/PE				
	ATIONS		PS	SN1		PS	PSN3		CSP771		UNIT
BASIC SPECIFIC	AHONS				VA	VLVE SIZE (I	mm)				UNIT
		15	20	25	32	40	50	65	80	100	
CYCLE TIME	50Hz	7		9		21	25	58	72	85	_
CTOLE TIME	60Hz	7		9		21	25	49	61	73	S
PROTECTIVE STR	UCTURE					IP55					
MOTOR CURREN	Г					3.0					A/PHASE
NUMBER OF REVOLUTION MANUAL OPERATING HAN		24	Ļ	30		50	60	40	50	60	
CABLE CONNECT	OR SIZE		2-G1/2								
MOTOR INSULATI	ON TYPE		E CLASS								

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
E-E POSITIONER	MSYSTEM	• INCLUDED AS STANDARD.
SPECIAL PAINTING (ACTUATOR ONLY)	ASAHI YUKIZAI	• EPOXY PAINT, POLYURETHANE PAINT







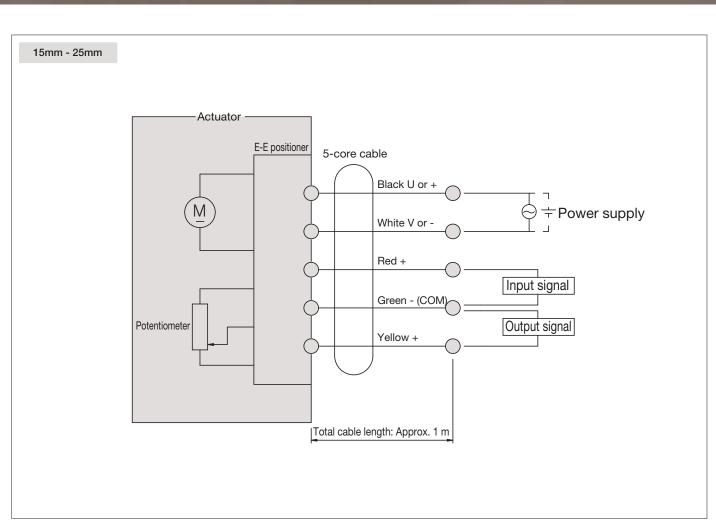


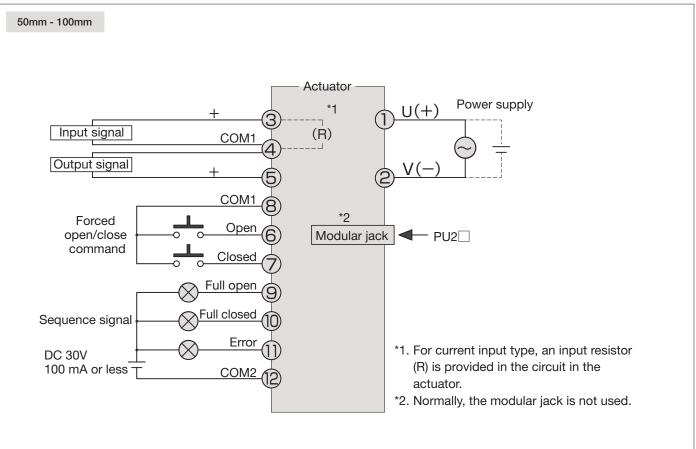
- OUR ORIGINAL SPECIAL PLUG SHAPE REDUCES THE EFFECTS OF FLUID VISCOSITY AND ALLOWS FOR ACCURATE FLOW CONTROL.
- USES HIGH-PERFORMANCE ALL ELECTRONIC SERVO ACTUATOR
- EQUIPPED WITH ELECTRONIC LIMITER FOR FULL CLOSED AND FULL OPEN POSITIONS AND OVERLOAD PROTECTION CIRCUIT.



				ACTUATOR TYPE				
		MSP6-□4	MSP6- 6	PSN1		PSN3	UNIT	
BASIC SPEC	CIFICATIONS			VAVLVE SIZE (mm)		UNIT	
		15	25	50	80	100		
CYCLE TIME	-	10-	35	18-21	20-22	28-32	s	
PROTECTIVE	E STRUCTURE			IP55				
POWER	AC100V-120V	Approx	Approx. 25VA		Approx. 240VA			
CONSUMPTION (CONSUMPTION	AC200V-240V	Approx	. 25VA	Approx. 240VA				
CURRENT)	DC24V±10%	Approx	. 0.6VA	Approx. 3A				
VIBRATION	*	0.5G O	R LESS					
CABLE CON	NECTOR SIZE	G1/2						
MOTOR INS	ULATION TYPE			E CLASS				
MOTOR RAT	ED TIME			CONTINUOUS			min	

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
E-E POSITIONER	MSYSTEM	• INCLUDED AS STANDARD.
SPECIAL PAINTING (ACTUATOR ONLY)	ASAHI YUKIZAI	• EPOXY PAINT, POLYURETHANE PAINT











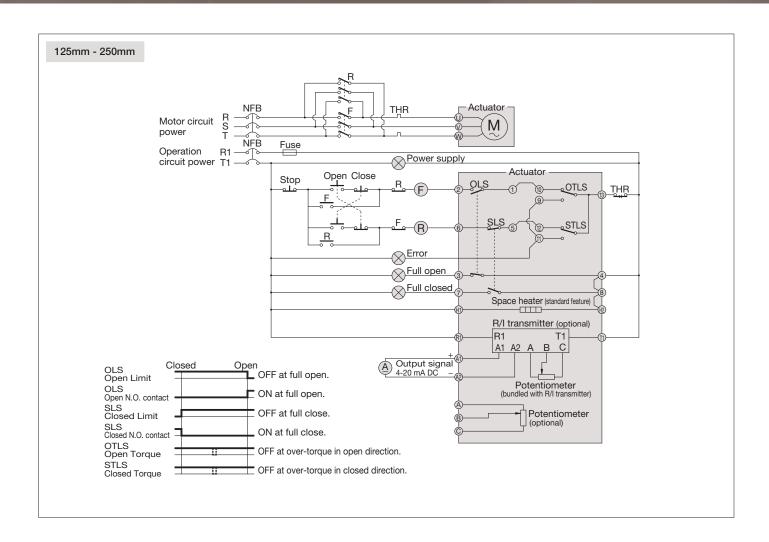
- EQUIPPED WITH TORQUE SWITCH AS STANDARD TO PREVENT VALVE DAMAGE DUE TO OVERLOAD.
- AUTOMATIC RETURN MECHANISM ELIMINATES CLUTCH OPERATION AFTER MANUAL OPERATION.



		ACTUATOR TYPE							
BASIC SPECIFICATIONS		LTRM-01 LTRH-01		ID-01 ID-01	LTMD-02 LTKD-02	UNIT			
			VAVLVE SIZE (mm)						
		125	150	200	250				
CYCLE TIME	50Hz	29	54	75.5	90	s			
GTOLE TIME	60Hz	24	46.5	63	75	5			
PROTECTIVE STRU			IF	255					
MOTOR STARTING CURRENT	AC200V	8.8/8.3	8.0)/7.4	15.6/15.2	A			
50/60Hz	AC400V	4.4/4.1	4.0)/3.7	7.8/7.6	A			
MOTOR RATED CURRENT	AC200V	3.0/2.4	2.5	5/2.2	4.4/4.0	Δ.			
50/60Hz	AC400V	1.5/1.2	1.3	3/1.1	2.2/2.0	A			
NUMBER OF REVOLUTION OPERATING HANDLE	IS OF MANUAL		10 16		18				
POWER CONSUMPTION	AC200V	397/361	650/610	—	—	W			
50/60Hz	AC400V	397/361	650/610	—	_	vv			
CABLE CONNECTO	OR SIZE	2-G1	2-G1 OPERATION CIRCUIT: 2-G1, MOTOR CIRCUIT: G3/4						
MOTOR RATED OU	ITPUT	400 750							
MOTOR INSULATIO	ON TYPE	E CLASS							
MOTOR RATED TIM	/IE	15							
LIMIT SWITCH CAF	PACITY	AC250V 5A							
MOTOR POLE		4							
SPACE HEATER RATE	D OUTPUT	10							
	100Ω		15						
POTENTIOMETER	200Ω			20		V			
MAX. APPLIED VOLTAGE	500Ω		3	30		v			
	1kΩ		2	45					

COMBINATION NO.	1	2	3	4
SPACE HEATER				
OUTPUT CONTACT LIMIT SWITCH	0	_		_
POTENTIOMETER	0	_	_	_
R/I TRANSMITTER	_	_	0	0
E-E POSITIONER*	—	_	_	0

OPTION LIST MANUFACTURER BASIC SPECIFICATIONS ТАМАОНМ SPACE HEATER • INCLUDED AS STANDARD. OUTPUT CONTACT LIMIT SEIBU ELECTRIC& SWITCH MACHINERY POTENTIOMETER MIDORI PRECISIONS • RESISTANCE: 100Ω, 200Ω, 500Ω, 1000Ω SEIBU ELECTRIC& **R/I TRANSMITTER** MACHINERY SEIBU ELECTRIC& E-E POSITIONER MACHINERY SEIBU ELECTRIC& MANUAL OVERRIDE • INCLUDED AS STANDARD. MACHINERY SEIBU ELECTRIC& SPECIAL PAINTING (ACTUATOR • POLYURETHANE PAINT ONLY) MACHINERY







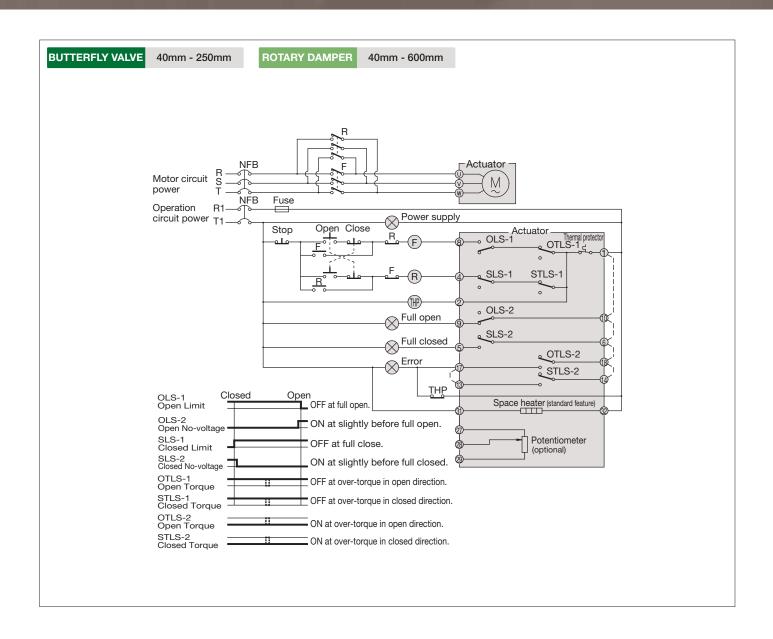
- EXCELLENT WATERPROOF PERFORMANCE (IP68)
- EQUIPPED WITH MANUAL HANDLE AS STANDARD (SWITCH LEVER TYPE AUTOMATIC RETURN MECHANISM)
- EQUIPPED WITH TORQUE SWITCH AS STANDARD TO PREVENT VALVE DAMAGE DUE TO OVERLOAD.



		ACTUATOR TYPE						
BASIC SPECIFIC	BASIC SPECIFICATIONS		SRJ-020	SRJ-060	UNIT			
CYCLE TIME	50Hz	18		s				
CYCLE HIME	60Hz	15	15 30					
PROTECTIVE STRU	JCTURE		IP68					
MOTOR STARTING CURRENT	AC200V		1.27/1.19	1.89/1.77	A			
50/60Hz	AC400V		0.63/0.58	0.94/0.90	A			
MOTOR RATED CURRENT	AC200V		0.53/0.45	0.74/0.67	A			
50/60Hz	AC400V		0.26/0.22 0.37/0.34					
NUMBER OF REVOLUTION OPERATING HANDLE	NS OF MANUAL		21	26				
POWER	AC200V		162/156	W				
CONSUMPTION 50/60Hz	AC400V	84.7/78.8 163/159						
CABLE CONNECTO	CABLE CONNECTOR SIZE		G1					
MOTOR RATED OU	JTPUT		40	100	W			
MOTOR INSULATIO	ON TYPE		B CLASS					
MOTOR RATED TIM	ЛЕ		15	min				
LIMIT SWITCH CAR	PACITY	AC250V 2A						
MOTOR POLE			4	Р				
SPACE HEATER RAT	ED OUTPUT		8	W				
POTENTIOMETER	135Ω		7.3					
MAX. APPLIED	200Ω		12.6		V			
VOLTAGE	500Ω		14					

COMBINATION NO.	1	2	3
SPACE HEATER			
OUTPUT CONTACT LIMIT SWITCH			
POTENTIOMETER	0	0	0
R/I TRANSMITTER	—	0	0
E-E POSITIONER	—	_	0

	MANUFACTURER	BASIC SPECIFICATIONS
SPACE HEATER	KURABE INDUSTRIAL	• INCLUDED AS STANDARD.
OUTPUT CONTACT LIMIT SWITCH	SEIBU ELECTRIC& MACHINERY	• INCLUDED AS STANDARD.
POTENTIOMETER	MIDORI PRECISIONS	• RESISTANCE: 133Ω, 200Ω, 500Ω, 1000Ω
R/I TRANSMITTER	SEIBU ELECTRIC& MACHINERY	
E-E POSITIONER	SEIBU ELECTRIC& MACHINERY	STANDARD TYPE, HIGH RESOLUTION TYPE When an E-E positioner is provided, the operating power supply is single phase (AC 100V, AC 200V).
MANUAL OVERRIDE	SEIBU ELECTRIC& MACHINERY	• INCLUDED AS STANDARD.
SPECIAL PAINTING (ACTUATOR ONLY)	SEIBU ELECTRIC& MACHINERY	POLYURETHANE PAINT







- EQUIPPED WITH TORQUE SWITCH AS STANDARD TO PREVENT VALVE DAMAGE DUE TO OVERLOAD.
- AUTOMATIC RETURN MECHANISM ELIMINATES CLUTCH OPERATION AFTER MANUAL OPERATION.
- THE STOPPER ALLOWS FOR ANGLE ADJUSTMENT OF ±5° AT FULL OPEN/CLOSED POSITIONS.

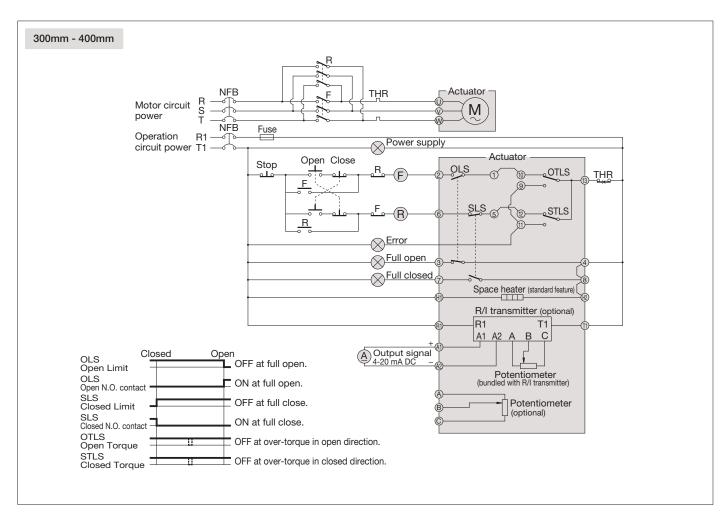
			ACTUAT	OR TYPE						
		LTRM-01/BRM-1 LTRH-01/BRM-1	LTRM-01/BRM-2 LTRH-01/BRM-2	LTMD-01/BRM-3 LTKD-01/BRM-3						
BASIC SPECIFIC	ATIONS		VAVLVE SIZE (mm)							
		300 350	400~600	400 4	450	500	600			
			BODY MATERIAL							
		U-PVC,PP,PVDF PDCPD								
CYCLE TIME	50Hz	43	41	38			49	s		
GTOLE TIME	60Hz	36	34	41			50	5		
PROTECTIVE STRU	JCTURE		IP	55						
MOTOR STARTING CURRENT	AC200V	7.60/7.00		10.2/9.6				А		
50/60Hz	AC400V	4.10/3.80		4.6/4.4				A		
MOTOR RATED CURRENT	AC200V	1.8/1.4	2.5/2.2					А		
50/60Hz	AC400V	0.91/0.75	1.2/0.99					7		
NUMBER OF REVOLUTION OPERATING HANDLE	NS OF MANUAL	15								
POWER CONSUMPTION	AC200V	240/215	620/593	620/593				w		
50/60Hz	AC400V	229/220	625/556		/593		vv			
CABLE CONNECTO	OR SIZE	PERATION CIRCUIT: 3-G1, MOTOR CIRCUIT: 1-G3/4 OPERATION CIRCUIT: 2-G1, MOTOR CIRCUIT: 1-G3/4								
MOTOR RATED OL	JTPUT	200 400					W			
MOTOR INSULATIO	ON TYPE	B CLASS								
MOTOR RATED TIM	ЛE	15						min		
LIMIT SWITCH CAP	PACITY	AC250V 5A								
MOTOR POLE	MOTOR POLE		4	1				Р		
SPACE HEATER RATE	ED OUTPUT	1(0		30)		W		
	135Ω		15							
POTENTIOMETER MAX. APPLIED	200Ω		2	0				V		
VOLTAGE	500Ω		3	0				v		
	1kΩ		4	5						

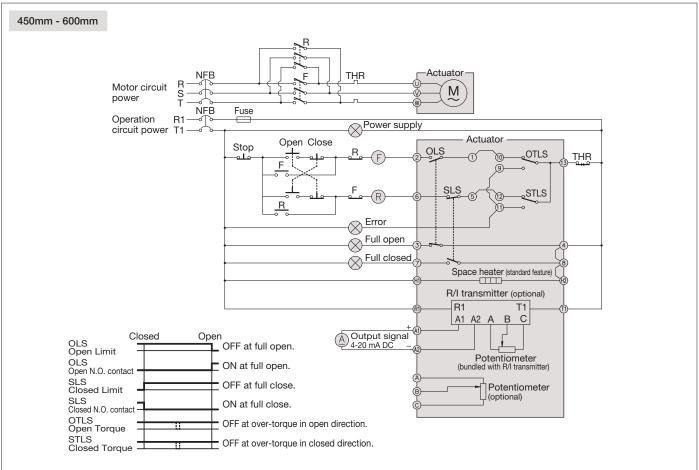
COMBINATION NO.	1	2	3	4
SPACE HEATER				
OUTPUT CONTACT LIMIT SWITCH	0	—	—	_
POTENTIOMETER	_	0	0	0
R/I TRANSMITTER	_	—	0	0
E-E POSITIONER*	_	_	_	0

indicates that the feature is provided as standard.
 * The actuator type is different.

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SPACE HEATER	ТАМАОНМ	• INCLUDED AS STANDARD.
OUTPUT CONTACT LIMIT SWITCH	SEIBU ELECTRIC& MACHINERY	
POTENTIOMETER	MIDORI PRECISIONS	• RESISTANCE: 100Ω, 200Ω, 500Ω, 1000Ω
R/I TRANSMITTER	SEIBU ELECTRIC& MACHINERY	
E-E POSITIONER	SEIBU ELECTRIC& MACHINERY	
MANUAL OVERRIDE	SEIBU ELECTRIC& MACHINERY	• INCLUDED AS STANDARD.
SPECIAL PAINTING (ACTUATOR ONLY)	SEIBU ELECTRIC& MACHINERY	POLYURETHANE PAINT









- MUCH LIGHTER WEIGHT SINCE THE SPECIFIC WEIGHT OF PDCPD IS 1/7 OF THAT OF CAST IRON.
- EXCELLENT WATERTIGHTNESS DUE TO SYNTHETIC RUBBER SEAT PACKING
- EQUIPPED WITH TORQUE SWITCH AS STANDARD TO PREVENT VALVE DAMAGE DUE TO OVERLOAD.
- AUTOMATIC RETURN MECHANISM ELIMINATES CLUTCH OPERATION AFTER MANUAL OPERATION.
- THE STOPPER ALLOWS FOR ANGLE ADJUSTMENT OF $\pm 5^\circ$ AT FULL OPEN/ CLOSED POSITIONS.

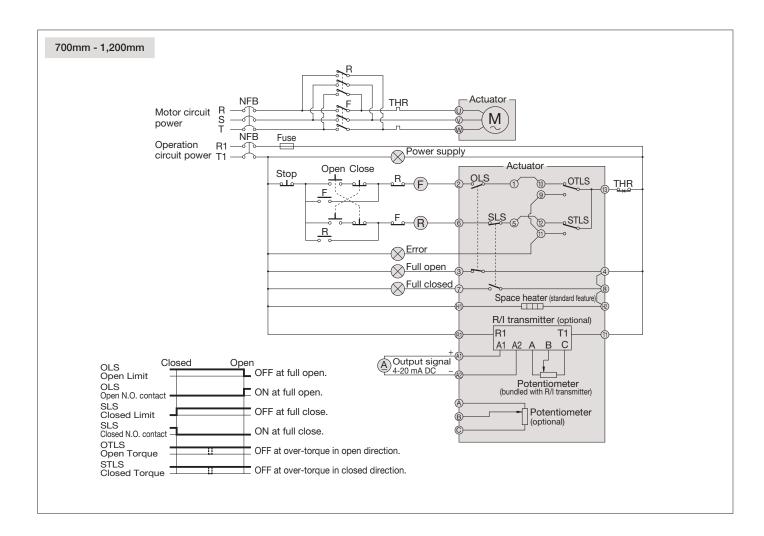
-	

BASIC SPECIFICATIONS			ACTUATOR TYPE 1							
		LTMD-02/BRM10	LTMD-0	5/BRM10	LTMD-05/BRM-18	LTMD-1	/BRM-18	UNIT		
CYCLE TIME	50Hz	75	68	43	50	50	68			
	60Hz	63	76	51	49	57	69	S		
PROTECTIVE STRU	JCTURE			IP	55		•			
MOTOR STARTING	AC200V	18.9	/17.3	38.0/35.0		57.8/51.7		•		
CURRENT 50/60Hz	AC400V	9.0/	/8.4	19.0/17.5		28.9/25.9		A		
MOTOR RATED	AC200V	3.9/	/3.5	7.7/6.0		11/9.8		Α		
CURRENT 50/60Hz	AC400V	1.9,	/1.8	3.9/3.5		5.3/4.8				
NUMBER OF REVOLUTION OPERATING HANDLE	IS OF MANUAL	15		333		615				
INSULATION RESIS	STANCE		100ΜΩ							
AMBIENT TEMPER	ATURE			-25~50						
CABLE CONNECTO	OR SIZE		OPERATION CIRCUIT: 2-G1, MOTOR CIRCUIT: 1-G3/4							
MOTOR RATED OU	JTPUT	0.	75	1.5		2.2		W		
MOTOR INSULATIO	ON TYPE			B CL	ASS					
MOTOR RATED TIM	ИЕ			15						
LIMIT SWITCH CAR	PACITY			AC250V 5A						
MOTOR POLE				4				Р		
SPACE HEATER RAT	ED OUTPUT			3	0			W		

*1 When an E-E positioner is provided, "Z" is added at the end of the model designation. (Example: LTMD-02Z/BRM-10)

COMBINATION NO.	1	2	3	4
SPACE HEATER				
OUTPUT CONTACT LIMIT SWITCH	0	_	_	_
POTENTIOMETER	_	0	0	0
R/I TRANSMITTER	_	—	0	0
E-E POSITIONER [*]	_	—	-	0

OPTION LIST MANUFACTURER		BASIC SPECIFICATIONS
SPACE HEATER	ТАМАОНМ	• INCLUDED AS STANDARD.
OUTPUT CONTACT LIMIT SWITCH	SEIBU ELECTRIC& MACHINERY	
POTENTIOMETER	MIDORI PRECISIONS	• RESISTANCE: 100Ω, 200Ω, 500Ω, 1000Ω
R/I TRANSMITTER	SEIBU ELECTRIC& MACHINERY	
E-E POSITIONER	SEIBU ELECTRIC& MACHINERY	
MANUAL OVERRIDE	SEIBU ELECTRIC& MACHINERY	• INCLUDED AS STANDARD.
SPECIAL PAINTING (ACTUATOR ONLY)	SEIBU ELECTRIC& MACHINERY	POLYURETHANE PAINT







- LIGHT WEIGHT, COMPACT SIZE AND HIGH OUTPUT POWER
- THE PROTECTIVE STRUCTURE OF ACTUATOR IS EQUIVALENT TO IP65.
- MANUAL OVERRIDE FUNCTION ALLOWS FOR OPERATION WITH ALLEN WRENCH (5 mm).
- EASY-TO-UNDERSTAND OPENING DISPLAY



BASIC SPECIFICATIONS			ACTUATOR TYPE							
BASIC SI	PECIFICA	HONS	T-00	T-0	T-1	T-2	T-2.5	Т-3	UNIT	
CYCLE	50Hz		10	25 37 55				55		
TIME	60Hz		8	20 30 5					S	
PROTECTIVE STRUCTURE			PROTECTION RATING 5 JETPROOF TYPE							
	AC100V	100V*1	0.80/0.80	1.20/1.20	1.6/1.4	2.4/2.4		5.1/4.8		
MOTOR	AC110V	1000 '	1.00/1.00	1.40/1.40	1.7/1.7	2.5/2.5		6.1/6.6		
STARTING		200V*1	0.50/0.50	0.50/0.50	0.7/0.7	1.1/1.1		2.6/2.4	^	
CURRENT	AC220V	2000 '	0.70/0.70	0.70/0.70	0.8/0.9	1.2/1.2		3.1/3.0	A	
50/60Hz	AC220V	220V*1	_	—	0.7/0.7	1.1	1.1/1.0			
	AC240V	240V*1	_	—	0.6/0.6	0.9/0.9		2.1/2.2		
	AC100V	100V ^{*1}	0.40/0.40	0.50/0.50	0.7/0.6	0.9	/1.2	1.6/1.7		
MOTOR	AC110V	1000 '	0.50/0.50	0.60/0.60	0.9/0.7	1.0	1.0/1.2			
RATED	AC200V	200V*1	0.25/0.25	0.25/0.25	0.4/0.3	0.5	/0.8	0.8/1.0	А	
CURRENT	AC220V	2000 .	0.30/0.30	0.30/0.30	0.5/0.4	0.6	/0.8	0.9/1.0	A	
50/60Hz	AC220V	220V*1	_	_	0.4/0.3	0.5	/0.5	0.7/0.8		
	AC240V	240V*1	_	0.25/0.25	0.3/0.3	0.5	0.5/0.6			
	NUMBER OF REVOLUTIONS OF MANUAL OPERATING HANDLE (0 - 90 DEG)		7.5	6.7	16.5					
CABLE C	ONNECTO	R SIZE	G1	G1/2 G1/2 (PF1/2) 2 PLACES						
MOTOR F	RATED OUT	FPUT	٤	3	20 30			90	W	
MOTOR INSULATION TYPE			E CLASS							
MOTOR RATED TIME			30						min	
LIMIT SWITCH CAPACITY*2			AC250V 5A AC250V 10A							
SPACE HE	ATER RATE	D OUTPUT	2 ^{*3}	2'3 8						
AMBIENT	TEMPERA	TURE		-10~50°C					°C	

*1. Motor power source. *2. If the value is equal to or lower than the contact capacity of limit switch (1 mA - 100 mA, 5 - 30V), contact our sales office in your area. *3. The space heater for T-00 is optional.

T-00

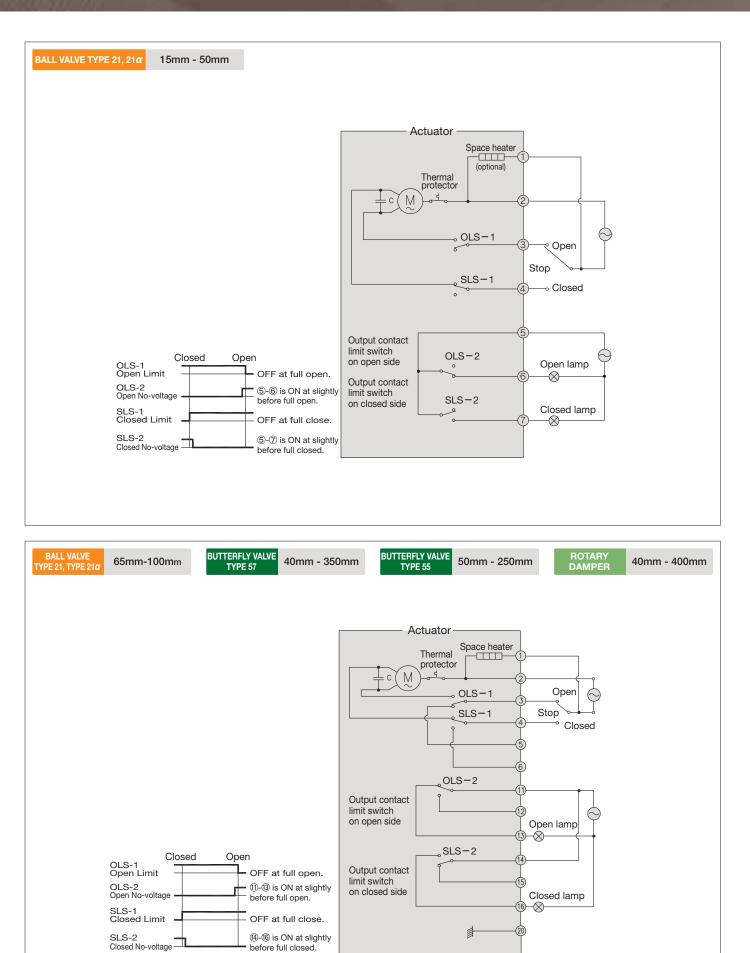
COMBINATION NO.	1	2	3
SPACE HEATER	0		0
MANUAL HANDLE	—	0	0

T-0, T-1, T-2, T-2.5, T-3

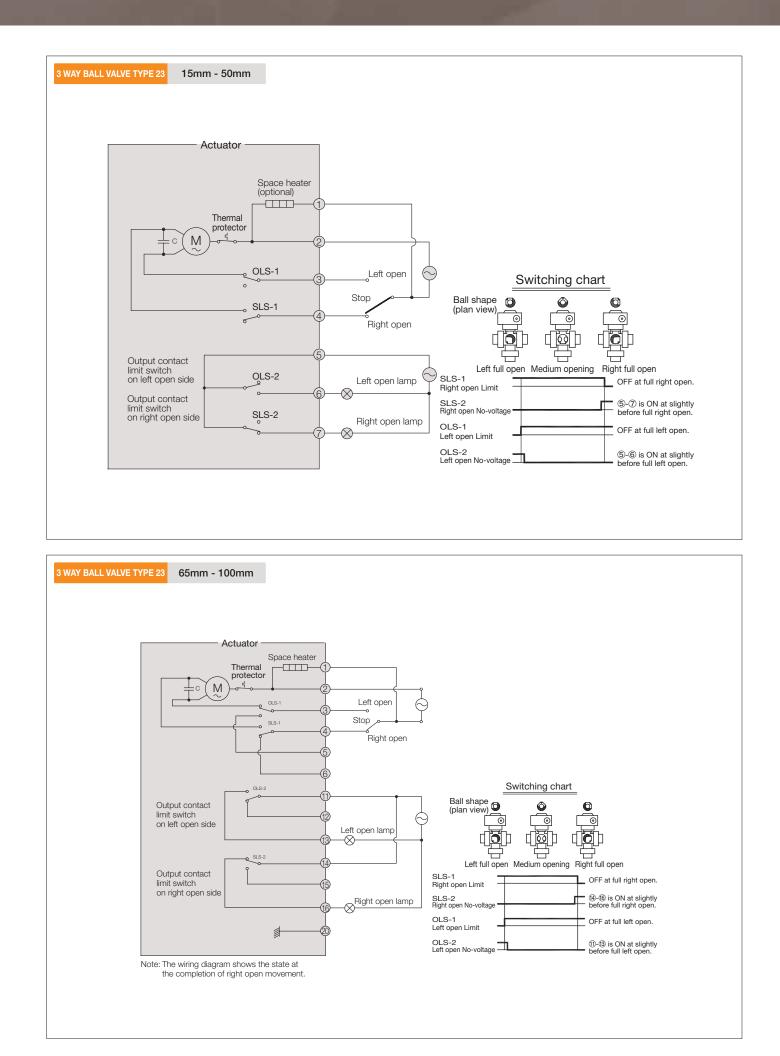
COMBINATION NO.	1	2	3	4	5	6	7
SPACE HEATER			0		0		0
OUTPUT CONTACT LIMIT SWITCH				—		—	
POTENTIOMETER	—	0	—	—	—	0	0
E-E POSITIONER	_	_	0	_	_	—	_
INTERMEDIATE OUTPUT CONTACT LIMIT SWITCH	—	_	_	0	_	0	_
SPEED CONTROLLER	_	_	_	_	0	_	0

• indicates that the feature is provided as standard.

OPTION LIST	MANUFACTURER	BASIC SPECIFICATIONS
SPACE HEATER	TOMOE VALVE	• PROVIDED AS STANDARD FOR T-0 OR ABOVE.
OUTPUT CONTACT LIMIT SWITCH	PANASONIC OMRON	• INCLIDED AS STANDARD. (T-00: PANASONIC, T-0-3: OMRON)
POTENTIOMETER	TOMOE VALVE	• RESISTANCE: 135Ω, 500Ω
E-E POSITIONER	TOMOE VALVE	
INTERMEDIATE OUTPUT CONTACT LIMIT SWITCH	PANASONIC OMRON	T-00: PANASONIC, T-0-3: OMRON
SPEED CONTROLLER	TOMOE VALVE	
MANUAL OVERRIDE	TOMOE VALVE	• INCLUDED AS STANDARD (T-00, T-0: MANUAL OPERATION SHAFT/ HEXAGONAL WRENCH, T-1-3: MANUAL OPERATING WHEEL)
SPECIAL PAINTING (ACTUATOR ONLY)	ASAHI YUKIZAI	POLYURETHANE PAINT
SPECIAL FITTING	ASAHI YUKIZAI	• SUS304



Closed No-voltage







LIGHTWEIGHT AND COMPACT SIZE

- CAN BE MANUALLY OPENED AND CLOSED BY LOOSENING THE LOCK SCREW AND TURNING THE OPERATING UNIT IN THE OPEN OR CLOSED DIRECTION.
- 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 CONTRIBUTES TO TOTAL COST REDUCTION.



	ACTUATOR TYPE									
BASIC SPECIFICATIONS (AC POWER SUPPLY: AM1) NIPPON VALVE CONTROLS		AM1-030		AM1-070	AM1-180			UNIT		
		VAVLVE SIZE (mm)								
	15	20	25	32	40	50				
RATED TORQUE	RATED TORQUE		3	7	18			N∙m		
	50Hz	5.4		15.5	16					
CYCLE TIME	60Hz	4.5		13			S			
POWER CONSUMPT	ION		•	16	19			VA		
POWER SUPPLY	50Hz	AC100/110, AC200/220 (SINGLE PHASE)						v		
TOWER SOFT EI	60Hz		AC100/110, AC200/220 (SINGLE PHASE)							
MOTOR		SYNCHRONOUS MOTOR								
MOTOR PROTECTIO	MOTOR PROTECTION		EQUIPPED WITH THERMAL PROTECTOR							
OUTPUT SIGNAL LOA	OUTPUT SIGNAL LOAD CURRENT		Max.0.7A(120V)/0.5A(AC250V)							
		* Min. applicable load: 100 mA (AC 100/200V)								
OPERATING AMBIENT 1	OPERATING AMBIENT TEMPERATURE		-20-55							
DUTY FACTOR (%ED	DUTY FACTOR (%ED)		20% 15min							
SPACE HEATER RATED OUTPUT		1								
PROTECTIVE STRUCTURE		OUTDOOR RAINPROOF STRUCTURE (EQUIVALENT TO IP65)								
MAIN MATERIAL		CASE: ALUMINUM DIE-CAST / COVER: POLYCARBONATE								
WIRE DRAWING TYPE		G3/8 WIRE CONNECTOR PROVIDED (FOR ø5-10.5 CABTYRE CABLE)								
KIND OF WIRE		0.14-1.5mm2(AWG26-14)								

	ACTUATOR TYPE							
BASIC SPECIFICATIONS	DM2-030		DM2-070	DM2-180			UNIT	
(DC POWER SUPPLY: DM2) NIPPON VALVE CONTROLS	VAVLVE SIZE (mm)							
	15	20	25	32	40	50		
RATED TORQUE	3		7	18			N∙m	
CYCLE TIME	2-3.5		2-3	4-6			s	
POWER CONSUMPTION	Max.10 Max.24						VA	
POWER SUPPLY	DC24							
MOTOR	DC MOTOR							
MOTOR PROTECTION	EQUIPPED WITH THERMISTOR (CURRENT LIMITER TYPE)							
OUTPUT SIGNAL LOAD CURRENT	DC24V 33mA-4A							
OPERATING AMBIENT TEMPERATURE	-20-55							
DUTY FACTOR (%ED)	20% 15min							
CONDENSATION PREVENTION MEASURES	EQUIPPED WITH BUILT-IN SPACE HEATER (1W)							
PROTECTIVE STRUCTURE	OUTDOOR RAINPROOF STRUCTURE (EQUIVALENT TO IP65)							
MAIN MATERIAL	CASE: ALUMINUM DIE-CAST / COVER: POLYCARBONATE							
WIRE DRAWING TYPE	G3/8 WIRE CONNECTOR PROVIDED (FOR ø5-10.5 CABTYRE CABLE)							
KIND OF WIRE	0.14-1.5mm2(AWG26-14)							

