

Pneumatic Module Units (Vertical)

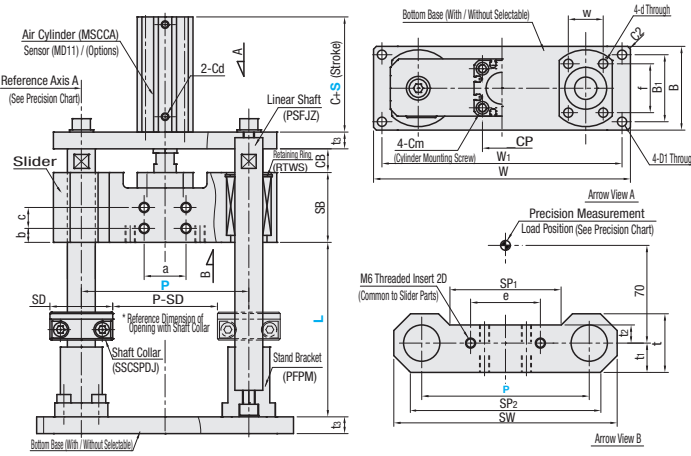
■ Pneumatic module unit that requires no basic design. To be used in vertical operations such as pushing, cutting and push motion.



Specifications List

Part Number	Specifications
Type	No. Cylinder Base
MAT25	NN(S) N (w/o) N (w/o)
MAT32	NB(S) N (w/o) B (w)
MAT40	CN(S) C (w) N (w/o)
MAT63	CB(S) C (w) B (w)

MAT25
MAT32
MAT40
MAT50
MAT63



Components

Parts	Base	Slider	Related Connecting Parts
Material	EN AW-6063 Equiv.	EN AW-6063 Equiv.	Stainless Steel
Surface Treatment	Clear Anodize	Clear Anodize	-

- 1) Possible to select the unit without a cylinder, then mount other manufacturer's cylinder.
- 2) Compatible cylinder diameters are Ø25, Ø32, Ø40, Ø50 and Ø63.
- 3) MAT25 is the only option for S Type. (MAT25(S))
- 4) S Type shaft diameter is Ø16. (See the Components List below.)

Module Components

Part Number	Component Name											
Type	No. Cylinder Linear Shaft Floating Joint Linear Bushing Retaining Ring Shaft Collar Stand Bracket											
MAT25	NNS, NBS CNS, CBS	MSCCA25	PSFJZ16 (Shaft Dia. 16)	FJUCS10	LMU16	RTWS28	SSCSPDJ16	PFPM16				
	NN, NB CN, CB	MSCCA25	PSFJZ20 (Shaft Dia. 20)						LMU20	RTWS32	SSCSPDJ20	PFPM20
	NN, NB CN, CB	MSCCA32	PSFJZ25 (Shaft Dia. 25)						LMU25	RTWS40	SSCSPDJ25	PFPM25
	NN, NB CN, CB	MSCCA40										
MAT40	NN, NB CN, CB	MSCCA50	FJUCS14	LMU25	RTWS40	SSCSPDJ25	PFPM25					
	NN, NB CN, CB	MSCCA63						FJUCS18				
MAT63	NN, NB CN, CB	MSCCA63										
Pages on Catalog		P.2-1485	P.135	P.2-1540	P.315	P.2-265	P.273	P.2154				

☞ For the components above, please confirm the details on the listed catalog pages.

Part Number	Type	No.	Selection		CB	C	CP	Cm	Cd	SB	Slider Dimension										Stand Mounting Dimension			Base Dimension (When With Base Type is selected)			SD				
			S	L (10mm Increment)							P	t	ti	ti	a	b	c	e	P	SW	SP1	SP2	t	ti	a	b		c	e	d	f
MAT25	NNS(S) NBS(S) CNS(S) CBS(S)	120 150 200	30	50	17	32.5	28	5	50	M5											When MAT25(S) is selected			When MAT25 is selected			6.6	40			
																					5.5			32					9	45	35
																					6.6			35							
																					6.6			25							
MAT32	NN NB CN CB	120-300 (S=30)	30	50	17	33	34	5	68	Rt1/8											When MAT32(S) is selected			When MAT32 is selected			12	45			
																					5.5			32					9	45	35
																					6.6			25							
																					6.6			25							
MAT40	NN NB CN CB	160-300 (S=50)	30	50	17	39.5	40	6	68	Rt1/8											When MAT40(S) is selected			When MAT40 is selected			15	11			
																					5.5			32					9	45	35
																					6.6			25							
																					6.6			25							
MAT50	NN NB CN CB	160-250 (S=30)	30	50	17	40.5	50	8	72	Rt1/4											When MAT50(S) is selected			When MAT50 is selected			15	11			
																					5.5			32					9	45	35
																					6.6			25							
																					6.6			25							
MAT63	NN NB CN CB	160-250 (S=50)	30	50	17	46	60	10	72	Rt1/4											When MAT63(S) is selected			When MAT63 is selected			15	11			
																					5.5			32					9	45	35
																					6.6			25							
																					6.6			25							

Ordering Example: Part Number - S - P - L
MAT25NN - 30 - 120 - 180

Alterations

Part Number - S - P - L - (NSC, AS)
MAT25NN - 30 - 120 - 180 - NSC

Alteration	Code	Spec.
W/o Shaft Collar	NSC	Excluding Shaft Collar
With Auto Switches	AS	Auto switches are included. Part Number MD11L3 2 pcs. ☞ Applicable to cylinder units only.

Part Number	Type	No.	Unit Price 1 - 4 pc(s)																	
			Cylinder Stroke S=30						Cylinder Stroke S=50											
			L=120-200		L=210-250		L=260-300		L=160-200		L=210-250		L=260-300							
Slider Pitch P		Slider Pitch P		Slider Pitch P		Slider Pitch P		Slider Pitch P		Slider Pitch P										
120	150	200	120	150	200	150	200	120	150	200	120	150	200							
MAT25	NNS NBS CNS CBS	NN NB CN CB	-	-	-	-	-	-	-	-	-	-	-	-						
			MAT32	NN NB CN CB	-	-	-	-	-	-	-	-	-	-	-	-				
					MAT40	NN NB CN CB	-	-	-	-	-	-	-	-	-	-	-	-		
							MAT50	NN NB CN CB	-	-	-	-	-	-	-	-	-	-	-	-
									MAT63	NN NB CN CB	-	-	-	-	-	-	-	-	-	-

☞ For orders larger than indicated quantity, please request a quotation.

Part Number	Type	No.	Mass (kg)												
			Cylinder Stroke S=30						Cylinder Stroke S=50						
			L=120-200		L=210-250		L=260-300		L=160-200		L=210-250		L=260-300		
P Slider Pitch		P Slider Pitch		P Slider Pitch		P Slider Pitch		P Slider Pitch		P Slider Pitch					
120	150	200	120	150	200	150	200	120	150	200	120	150	200		
MAT25	NNS NBS CNS CBS	NN NB CN CB	2.2	-	-	2.3	-	-	-	2.2	-	-	2.3	-	-
			2.5	-	-	2.7	-	-	-	2.5	-	-	2.7	-	-
			2.5	-	-	2.6	-	-	-	2.6	-	-	2.7	-	-
			2.9	-	-	3.0	-	-	-	3.0	-	-	3.1	-	-
			2.7	3.1	3.8	3.0	3.4	4.0	3.6	4.3	2.7	3.1	3.8	3.0	3.4
MAT32	NN NB CN CB	NN NB CN CB	3.1	3.8	4.5	3.4	4.0	4.8	4.2	5.0	3.1	3.8	4.5	3.4	4.0
			3.1	3.5	4.1	3.3	3.7	4.3	3.9	4.6	3.1	3.5	4.2	3.4	3.8
			3.5	4.1	4.9	3.7	4.3	5.1	4.6	5.4	3.5	4.2	4.9	3.8	4.4
			5.0	5.9	6.8	5.4	6.3	7.1	6.5	7.5	5.0	5.9	6.8	5.4	6.3
			5.8	6.8	7.7	6.2	7.1	8.0	7.5	8.5	5.8	6.8	7.7	6.2	7.1
MAT40	NN NB CN CB	NN NB CN CB	5.4	6.3	7.2	5.9	6.7	7.6	7.0	8.0	5.4	6.3	7.2	5.9	6.7
			6.2	7.2	8.1	6.6	7.6	8.5	7.9	8.9	6.2	7.2	8.1	6.6	7.6
			5.0	5.9	6.8	5.4	6.3	7.1	6.5	7.5	5.0	5.9	6.8	5.4	6.3
			5.8	6.8	7.7	6.1	7.1	8.0	7.5	8.5	5.8	6.8	7.7	6.1	7.1
			5.5	6.4	7.3	5.9	6.8	7.7	7.1	8.1	5.6	6.5	7.4	6.0	6.9
MAT50	NN NB CN CB	NN NB CN CB	6.3	7.3	8.2	6.6	7.6	8.5	7.9	8.9	6.3	7.3	8.2	6.6	7.6
			6.6	7.6	8.5	6.7	7.7	8.6	8.0	9.0	6.6	7.6	8.5	6.7	7.7
			5.0	5.9	6.8	5.4	6.3	7.1	6.5	7.5	5.0	5.9	6.8	5.4	6.3
			5.8	6.8	7.7	6.1	7.1	8.0	7.5	8.5	5.8	6.8	7.7	6.1	7.1
			5.5	6.4	7.3	5.9	6.8	7.7	7.1	8.1	5.6	6.5	7.4	6.0	6.9
MAT63	NN NB CN CB	NN NB CN CB	6.6	7.6	8.5	6.7	7.7	8.6	8.0	9.0	6.6	7.6	8.5	6.7	7.7
			7.9	8.9	9.8	7.3	8.3	9.2	8.6	9.6	7.9	8.9	9.8	7.3	8.3
			6.6	7.6	8.5	6.7	7.7	8.6	8.0	9.0	6.6	7.6	8.5	6.7	7.7
			8.6	9.6	10.5	7.9	8.9	9.8	9.2	10.2	8.6	9.6	10.5	7.9	8.9
			6.6	7.6	8.5	6.7	7.7	8.6	8.0	9.0	6.6	7.6	8.5	6.7	7.7

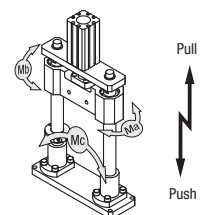
Velocity, Load Capacity, Force, Allowable Moment

Type	P Slider Pitch	Slider Mass (including Joint)	Max. Velocity (mm/sec)	Load Capacity (kN)	Cylinder Thrust Force Reference Value (kN)								Allowable Static Moment (N·m)		
					at 0.4MPa		at 0.5MPa		at 0.6MPa		at 0.7MPa		Ma	Mb	Mc
					Instroke	Outstroke	Instroke	Outstroke	Instroke	Outstroke	Instroke	Outstroke			
MAT25(S)	120	0.9	500	0.08	0.15	0.20	0.19	0.25	0.23	0.30	0.26	0.34	3.6	3.6	5.9
					0.15	0.20	0.19	0.25	0.23	0.30	0.26	0.34	4.8	4.8	6.9
					0.15	0.20	0.19	0.25	0.23	0.30	0.26	0.34	4.8	4.8	8.6
					0.15	0.20	0.19	0.25	0.23	0.30	0.26	0.34	4.8	4.8	11.4
MAT32	150	1.8	500	0.13	0.24	0.32	0.30	0.40	0.36	0.48	0.42	0.56	7.7	7.7	9.8
					0.24	0.32	0.30	0.40	0.36	0.48	0.42	0.56	7.7	7.7	13.1
					0.24	0.32	0.30	0.40	0.36	0.48	0.42	0.56	7.7	7.7	9.8
					0.24	0.32	0.30	0.40	0.36	0.48	0.42	0.56	7.7	7.7	13.1
MAT40	200	2.6	500	0.22	0.42	0.50	0.53	0.63	0.63	0.75	0.74	0.88	7.7	7.7	13.1
					0.42	0.50	0.53	0.63	0.63	0.75	0.74	0.88	7.7	7.7	13.1
					0.42	0.50	0.53	0.63	0.63	0.75	0.74	0.88	7.7	7.7	13.1
					0.42	0.50	0.53	0.63	0.63	0.75	0.74	0.88	7.7	7.7	13.1
MAT50	200	2.8	500	0.35	0.66	0.79	0.82	0.98	0.99	1.18	1.15	1.37	7.7	7.7	13.1
					0.66	0.79	0.82	0.98	0.99	1.18	1.15	1.37	7.7	7.7	13.1
MAT63	200	2.8	500	0.59	1.12	1.25	1.40	1.56	1.68	1.87	1.96	2.18	7.7	7.7	13.1
					1.12	1.25	1.40	1.56	1.68	1.87	1.96	2.18	7.7	7.7	13.1

Accuracy

Part Number	Running Parallelism to Reference Axis (Upright)					
	Under No Load			Under Load (Reference)		
	Slider Pitch		Slider Pitch	Slider Pitch		Slider Pitch
Type	120	150	200	120	150	200
MAT25(S)	0.07	-	-	0.08	-	-
MAT25	0.07	0.07	0.07	0.10	0.10	0.10
MAT32	-	0.07	0.07	-	0.10	0.10
MAT40	-	0.07	0.07	-	0.10	0.10
MAT50	-	-	0.07	-	-	0.10
MAT63	-	-	0.07	-	-	0.10

Allowable Moment



- 1) Measurement reference is Axis A.
- 2) Mount the load on the surface "e", apply a 3kg mass at 70mm from the shaft center, and measure.
- 3) Accuracy does not vary by difference in cylinder stroke.
- 4) Running parallelism values are for reference only.