



Double acting

MTAS	Single side clamping arm	
MTAD	Double sides clamping arm	
MTAS . . M	Single side clamping arm (Piston with magnet)	
MTAD . . M	Double sides clamping arm (Piston with magnet)	
MTAS . . FC	Single side clamping arm (Manifold With flow control)	
MTAD . . FC	Double sides clamping arm (Manifold With flow control)	
MTAS . . FA	Single side clamping arm (Flange type)	
MTAD . . FA	Double sides clamping arm (Flange type)	

Features:

- These swing clamps are used when it is required to keep the fixture workpiece area free of straps and clamping components for unrestricted workpiece loading and un-loading.
- This pneumatic clamping element is a pull type cylinder, There are five standard sizes, and for each size two versions of standard clamping arms, mounting of these clamping arms at any angle within 360.

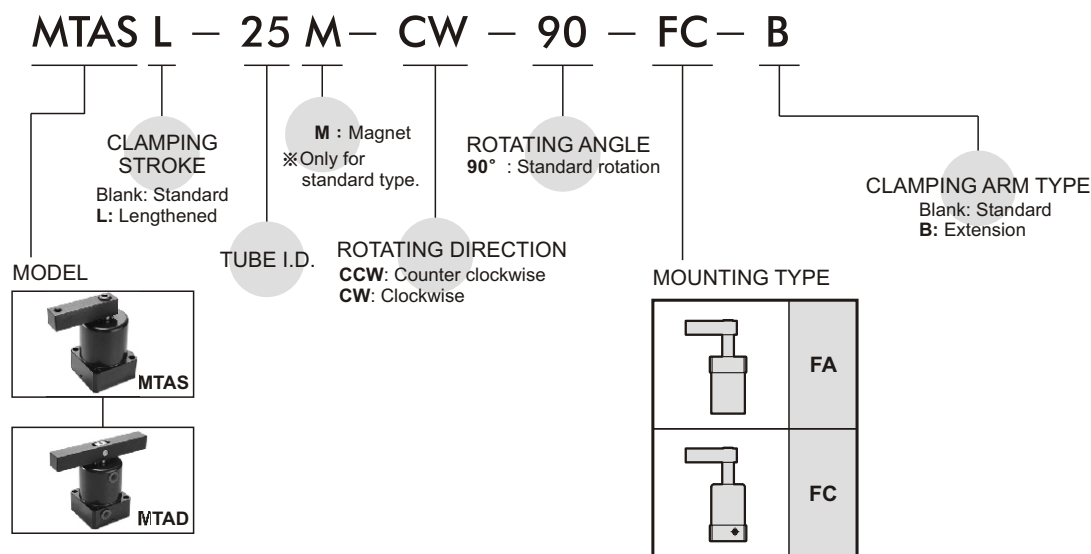
Note :

- Please don't exceed 1.5 times of the original length, if it is necessary to increase the length of the clamping arm.
- Suggested to install a flow control valve protect cylinder barrel and internal components against fretting wear.

Specification :

Model	MTAS	MTAD
Acting type	Double acting	
Tube I.D. (mm)	25, 32, 40, 50, 63	32, 40, 50, 63
Power fluid	Filtered air with or without lubrication	
The range of pressure	1~10.3 kgf/cm ²	
Max. pressure	14.7 kgf/cm ²	
Material of cylinder barrel	Anodised aluminium alloy	
Standard angle of rotation	90° ±2° (Angle of 0° , 45° and 60° are optional)	
Rotating direction	Clockwise or counter clockwise	
Sensor switch	LN40R	

Order example:



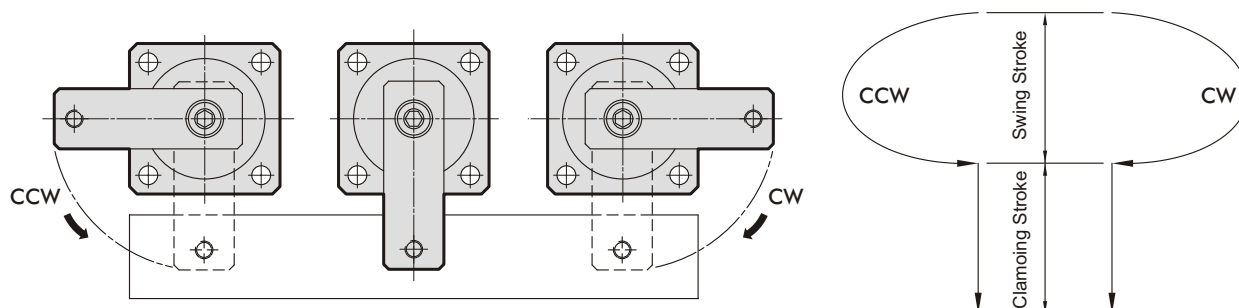
- ※1 : Only for without magnet type.
※2 : FC type required with the manifolds.

MTA* Precautions Be sure to read before handling.

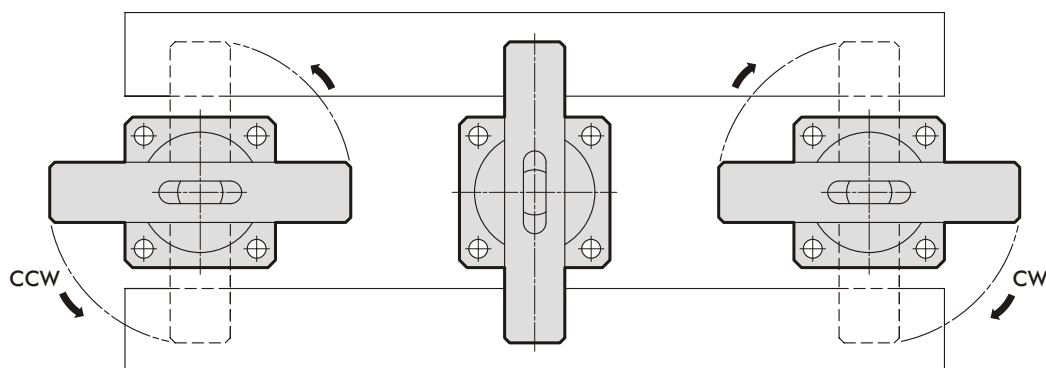
PNEUMATIC - Swing Clamp Cylinders



Single side swing clamp



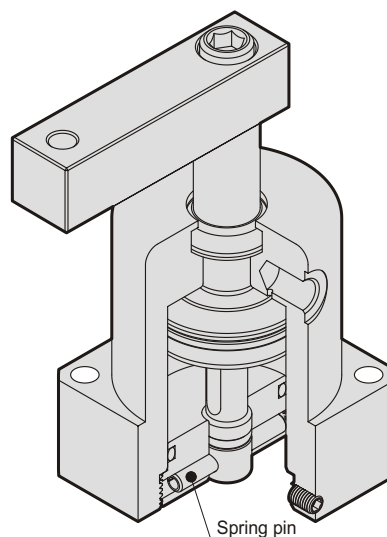
Double side swing clamp



Clamping arm mounting methods



Clamping arm removing methods



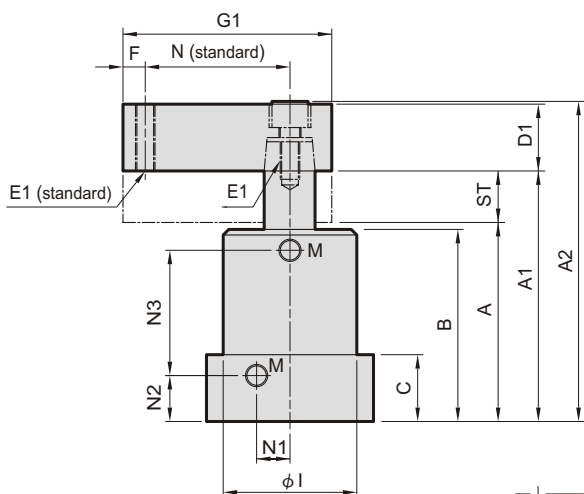
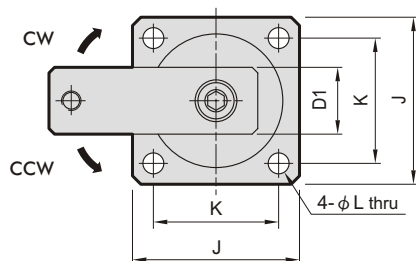
Note: If the clamping arm is wrong mounting and removing, the spring pin is broken easily. Then the rotation angle is deviation or the action is not smooth when the cylinder works.

MTA* Dimensions $\phi 25 \sim \phi 63$

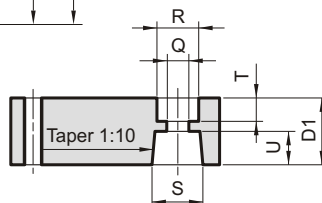
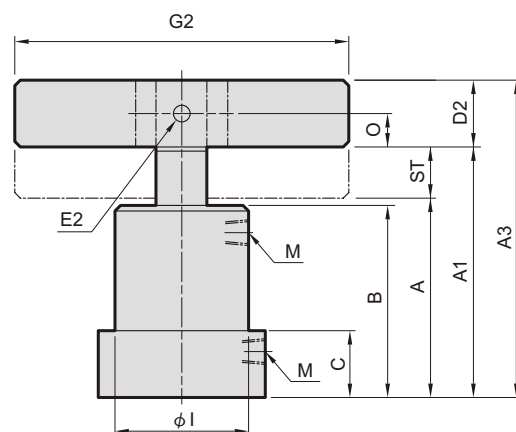
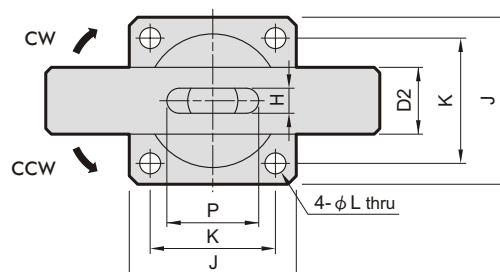
PNEUMATIC - Swing Clamp Cylinders



MTAS/MTASL



MTAD/MTADL



Single side clamping arm

※ Clamping stroke lengthened type.

Model		Tube I.D. (mm)	Piston rod (mm)	Swing stroke (mm)	Clamping stroke (mm)		Pressure area push/ pull (mm ²)	Clamping force N (0.6MPa)	Clamping arm type			
					Standard	※			G1		G2	
									Standard	Extension	Standard	Extension
MTAS-25		φ 25	φ 14	9	13	—	491 / 337	200	50	70	—	—
MTAS-32	MTAD-32	φ 32	φ 16	11	15	30	804 / 603	360	70	100	140	200
MTAS-40	MTAD-40	φ 40	φ 16	11	15	30	1257 / 1056	630	75	100	140	200
MTAS-50	MTAD-50	φ 50	φ 20	13	17	34	1963 / 1649	980	85	130	160	230
MTAS-63	MTAD-63	φ 63	φ 20	13	17	34	3117 / 2803	1680	95	130	160	230

Code Model		Standard type						Clamping stroke lengthened type ※						C	D1	D2	E1	E2	F
		A	A1	A2	A3	B	ST	A	A1	A2	A3	B	ST						
MTAS-25		67	89	(105.9)	-	65	22	-	-	-	-	-	-	23	□15.9	-	M6×1.0	-	6
MTAS-32	MTAD-32	82	108	(128)	127	78	26	97	138	(158)	157	93	41	28	□19	□19	M8×1.25	φ8	8
MTAS-40	MTAD-40	82	108	(128)	127	78	26	97	138	(158)	157	93	41	28	□19	□19	M8×1.25	φ8	8
MTAS-50	MTAD-50	94	124	(150.4)	146.2	90	30	111	158	(184.4)	180.2	107	47	31	□25.4	□22.2	M10×1.5	φ8	10
MTAS-63	MTAD-63	94	124	(150.4)	146.2	90	30	111	158	(184.4)	180.2	107	47	31	□25.4	□22.2	M10×1.5	φ8	10

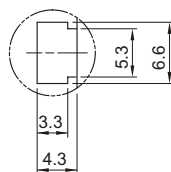
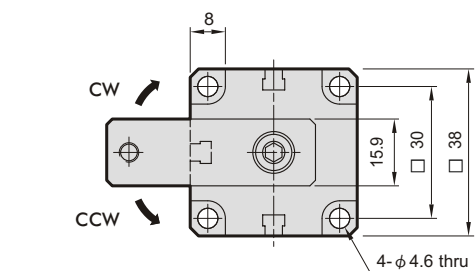
Code Model		H	I	J	K	L	M	N	N1	N2	N3		O	P	Q	R	S	T	U
											Standard	※							
MTAS-25		-	φ 35	38	30	φ 4.6	M5×0.8	35	8	16.5	39.5	-	-	-	φ 6.8	φ 11	φ 14	5	8.5
MTAS-32	MTAD-32	9	φ 46	50	40	φ 5.6	PT 1/8	50	11.5	19	45	60	9.5	25	φ 9	φ 14	φ 16	7	9.5
MTAS-40	MTAD-40	9	φ 55	60	48	φ 6.8	PT 1/8	55	14	19	45	60	9.5	25	φ 9	φ 14	φ 16	7	9.5
MTAS-50	MTAD-50	10	φ 65	70	57	φ 6.8	PT 1/8	60	17	21	54	71	11.1	29	φ 11	φ 17	φ 20	9	12.5
MTAS-63	MTAD-63	10	φ 78	83	67	φ 9	PT 1/8	70	20	21	54	71	11.1	29	φ 11	φ 17	φ 20	9	12.5

MTAS-25M With magnet type $\phi 25$

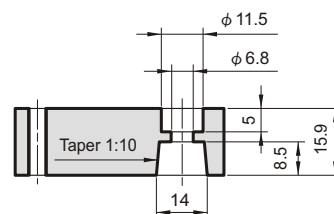
PNEUMATIC - Swing Clamp Cylinders



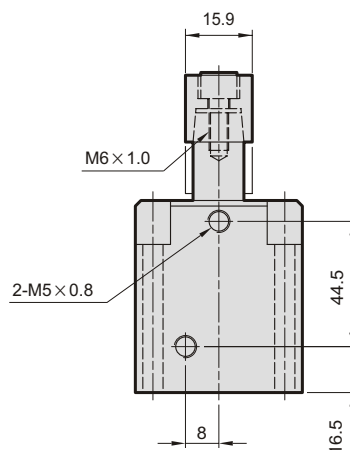
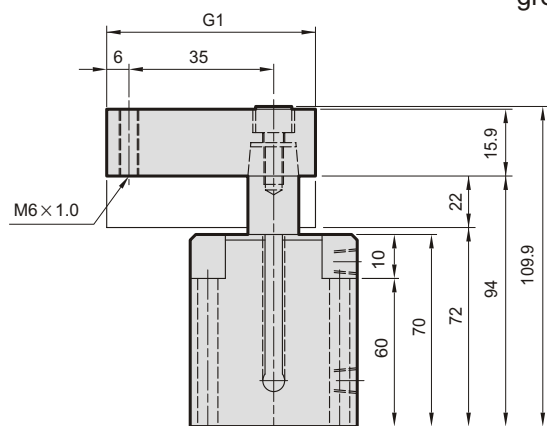
MTAS



Auto switch mounting
groove position



Single side clamping arm



Model	Tube I.D. (mm)	Piston rod (mm)	Swing stroke (mm)	Clamping stroke (mm)	Pressure area push/ pull (mm ²)	Clamping force N (0.6MPa)	Clamping arm type G1	
							Standard	Extension
MTAS-25M	$\phi 25$	$\phi 14$	9	13	491 / 337	200	50	70

Cylinder weight:

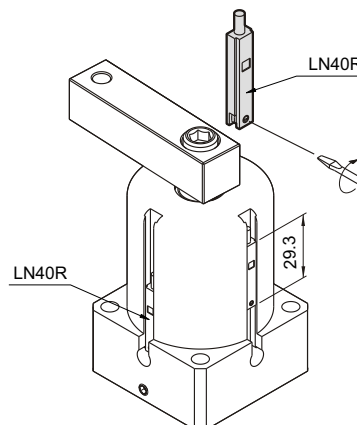
■ Standard type

Model	Weight (kg)
MTAS-25	0.3
MTAS-32	0.7
MTAD-32	0.9
MTAS-40	0.9
MTAD-40	1.1
MTAS-50	1.6
MTAD-50	1.8
MTAS-63	2.1
MTAD-63	2.3

■ With magnet type

Model	Weight (kg)
MTAS-25M	0.4
MTAS-32M	0.73
MTAD-32M	0.93
MTAS-40M	0.95
MTAD-40M	1.15
MTAS-50M	1.65
MTAD-50M	1.85
MTAS-63M	2.22
MTAD-63M	2.42

Installation of sensor switch:

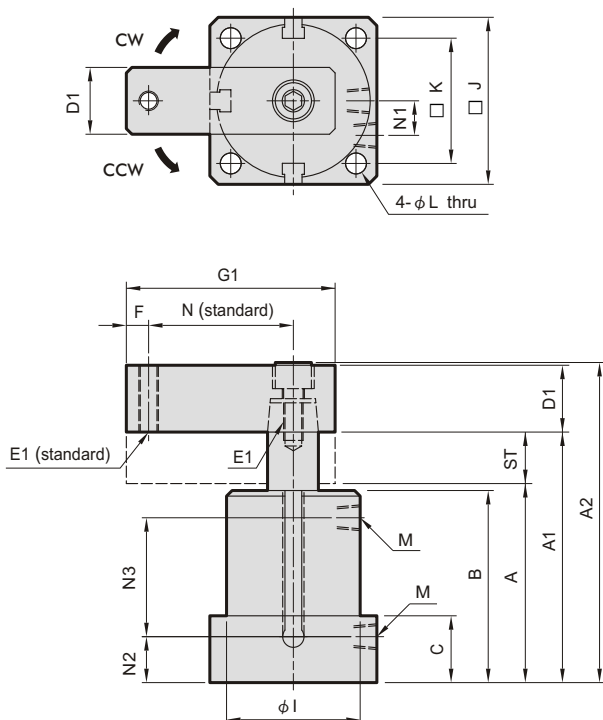


MTA*-*M With magnet type $\phi 32 \sim \phi 63$

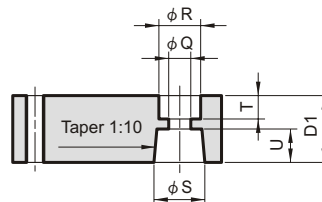
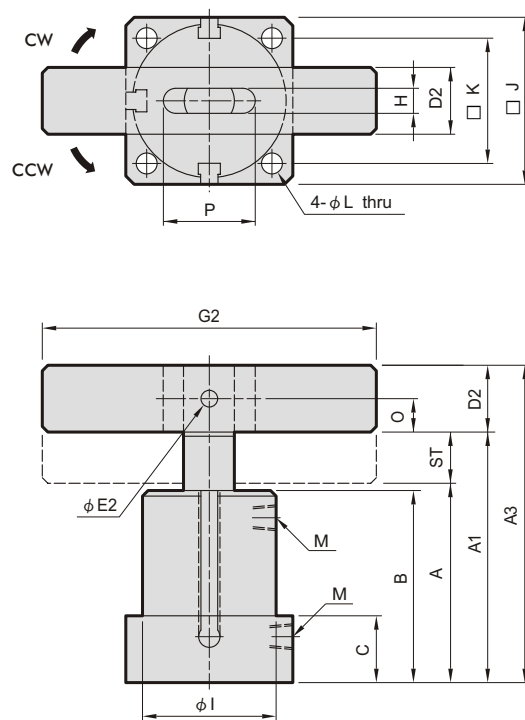
PNEUMATIC - Swing Clamp Cylinders



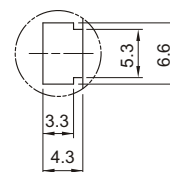
MTAS



MTAD



Single side clamping arm



Auto switch mounting groove position

Model		Tube I.D. (mm)	Piston rod (mm)	Swing stroke (mm)	Clamping stroke (mm)	Pressure area push/ pull (mm ²)	Clamping force N (0.6MPa)	Clamping arm type			
								G1		G2	
								Standard	Extension	Standard	Extension
MTAS-32M	MTAD-32M	φ 32	φ 16	11	15	804 / 603	360	70	100	140	200
MTAS-40M	MTAD-40M	φ 40	φ 16	11	15	1257 / 1056	630	75	100	140	200
MTAS-50M	MTAD-50M	φ 50	φ 20	13	17	1963 / 1649	980	85	130	160	230
MTAS-63M	MTAD-63M	φ 63	φ 20	13	17	3117 / 2803	1680	95	130	160	230

Code Model		A	A1	A2	A3	B	C	D1	D2	E1	E2	F	H	I	J	K
MTAS-32M	MTAD-32M	87	113	(133)	132	83	28	□19	□19	M8×1.25	φ 8	8	9	φ 46	50	40
MTAS-40M	MTAD-40M	87	113	(133)	132	83	28	□19	□19	M8×1.25	φ 8	8	9	φ 55	60	48
MTAS-50M	MTAD-50M	99	129	(155.4)	151.2	95	31	□25.4	□22.2	M10×1.5	φ 8	10	10	φ 65	70	57
MTAS-63M	MTAD-63M	99	129	(155.4)	151.2	95	31	□25.4	□22.2	M10×1.5	φ 8	10	10	φ 78	83	67

Code Model		L	M	N	N1	N2	N3	O	P	Q	R	S	ST	T	U
MTAS-32M	MTAD-32M	φ 5.6	PT1/8	50	11.5	19	50	9.5	25	φ 9	φ 14	φ 16	26	7	9.5
MTAS-40M	MTAD-40M	φ 6.8	PT1/8	55	14	19	50	9.5	25	φ 9	φ 14	φ 16	26	7	9.5
MTAS-50M	MTAD-50M	φ 6.8	PT1/8	60	17	21	59	11.1	29	φ 11	φ 17	φ 17	30	9	12.5
MTAS-63M	MTAD-63M	φ 9	PT1/8	70	20	21	59	11.1	29	φ 11	φ 17	φ 17	30	9	12.5

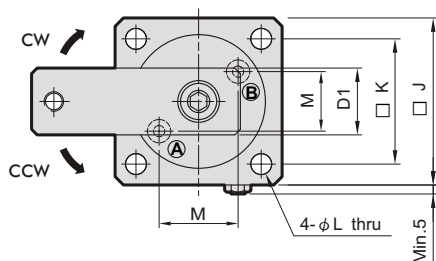
MTA*-FC Manifold With flow control $\phi 32 \sim \phi 63$

PNEUMATIC - Swing Clamp Cylinders

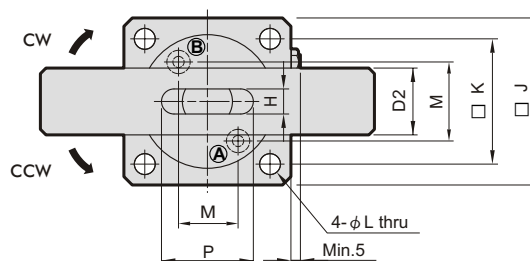


FC

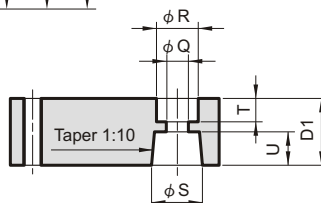
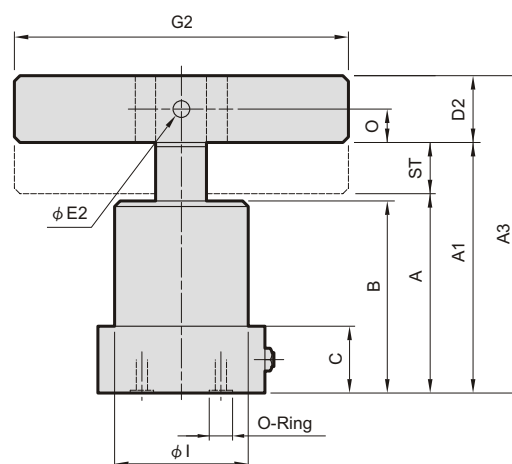
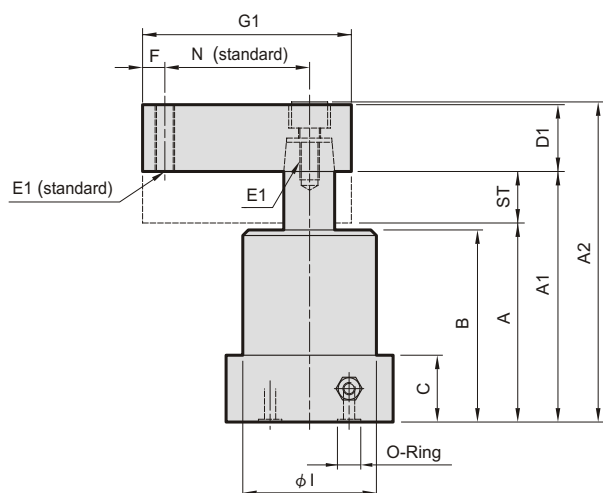
MTAS



MTAD



- Ⓐ Clamp port
- Ⓑ Release port



Single side clamping arm

Model		Tube I.D. (mm)	Piston rod (mm)	Swing stroke (mm)	Clamping stroke (mm)	Pressure area push/ pull (mm ²)	Clamping force N (0.6MPa)	Clamping arm type					
								G1		G2			
								Standard	Extension	Standard	Extension		
MTAS-32 FC	MTAD-32 FC	φ 32	φ 16	11	15	804 / 603	360	70	100	140	200		
MTAS-40 FC	MTAD-40 FC	φ 40	φ 16	11	15	1257 / 1056	630	75	100	140	200		
MTAS-50 FC	MTAD-50 FC	φ 50	φ 20	13	17	1963 / 1649	980	85	130	160	230		
MTAS-63 FC	MTAD-63 FC	φ 63	φ 20	13	17	3117 / 2803	1680	95	130	160	230		

Code Model		A	A1	A2	A3	B	C	D1	D2	E1	E2	F	H	I	J	K
MTAS-32 FC	MTAD-32 FC	82	108	(129.5)	127	78	22	□19	□19	M8×1.25	φ 8	8	9	φ 46	50	40
MTAS-40 FC	MTAD-40 FC	82	108	(129.5)	127	78	22	□19	□19	M8×1.25	φ 8	8	9	φ 55	60	48
MTAS-50 FC	MTAD-50 FC	94	124	(152.4)	146.2	90	25	□25.4	□22.2	M10×1.5	φ 8	10	10	φ 65	70	57
MTAS-63 FC	MTAD-63 FC	94	124	(152.4)	146.2	90	25	□25.4	□22.2	M10×1.5	φ 8	10	10	φ 78	83	67

Code Model		L	M	N	O	P	Q	R	S	ST	T	U	O-ring
MTAS-32 FC	MTAD-32 FC	φ 5.6	19	50	9.5	25	φ 9	φ 14	φ 16	26	7	9.5	P7
MTAS-40 FC	MTAD-40 FC	φ 6.8	23	55	9.5	25	φ 9	φ 14	φ 16	26	7	9.5	P7
MTAS-50 FC	MTAD-50 FC	φ 6.8	28	60	11.1	29	φ 11	φ 17	φ 20	30	9	12.5	P9
MTAS-63 FC	MTAD-63 FC	φ 9	32	70	11.1	29	φ 11	φ 17	φ 20	30	9	12.5	P9

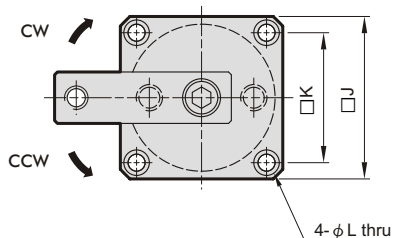
MTA*-FA Flange type $\phi 32 \sim \phi 63$

PNEUMATIC - Swing Clamp Cylinders

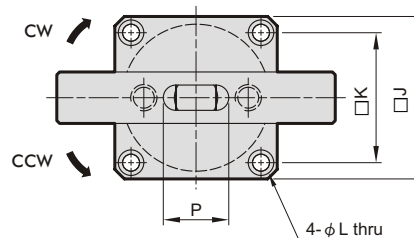


FA

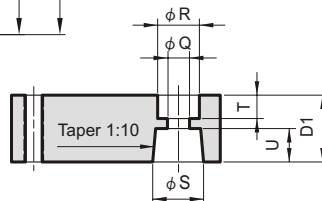
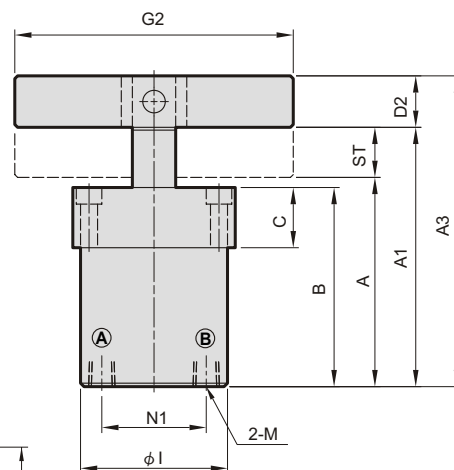
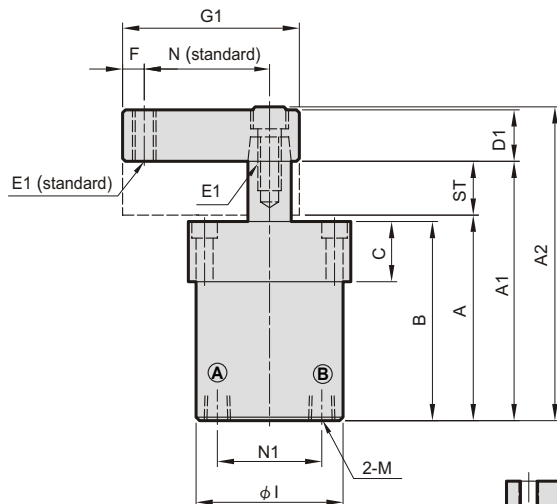
MTAS



MTAD



- Ⓐ Clamp port
- Ⓑ Release port



Single side clamping arm

Model		Tube I.D. (mm)	Piston rod (mm)	Swing stroke (mm)	Clamping stroke (mm)	Pressure area push/ pull (mm ²)	Clamping force N (0.6MPa)	Clamping arm type			
								G1		G2	
								Standard	Extension	Standard	Extension
MTAS-32 FA	MTAD-32 FA	φ 32	φ 16	11	15	804 / 603	360	70	100	140	200
MTAS-40 FA	MTAD-40 FA	φ 40	φ 16	11	15	1257 / 1056	630	75	100	140	200
MTAS-50 FA	MTAD-50 FA	φ 50	φ 20	13	17	1963 / 1649	980	85	130	160	230
MTAS-63 FA	MTAD-63 FA	φ 63	φ 20	13	17	3117 / 2803	1680	95	130	160	230

Code Model		A	A1	A2	A3	B	C	D1	D2	E1	E2	F	H	I	J	K
MTAS-32 FA	MTAD-32 FA	82	108	(129.5)	127	78	22	□19	□19	M8×1.25	φ 8	8	9	φ 46	50	40
MTAS-40 FA	MTAD-40 FA	82	108	(129.5)	127	78	22	□19	□19	M8×1.25	φ 8	8	9	φ 55	60	48
MTAS-50 FA	MTAD-50 FA	94	124	(152.4)	146.2	90	25	□25.4	□22.2	M10×1.5	φ 8	10	10	φ 65	70	57
MTAS-63 FA	MTAD-63 FA	94	124	(152.4)	146.2	90	25	□25.4	□22.2	M10×1.5	φ 8	10	10	φ 78	83	67

Code Model		L		M	N	N1	O	P	Q	R	S	ST	T	U
MTAS-32 FA	MTAD-32 FA	φ 5.6, φ 9×5.5dp		PT1/8	50	32	9.5	25	φ 9	φ 14	φ 16	26	7	9.5
MTAS-40 FA	MTAD-40 FA	φ 6.8, φ 10.5×6.5dp		PT1/8	55	40	9.5	25	φ 9	φ 14	φ 16	26	7	9.5
MTAS-50 FA	MTAD-50 FA	φ 6.8, φ 10.5×6.5dp		PT1/8	60	50	11.1	29	φ 11	φ 17	φ 20	30	9	12.5
MTAS-63 FA	MTAD-63 FA	φ 9, φ 14×9dp		PT1/8	70	63	11.1	29	φ 11	φ 17	φ 20	30	9	12.5

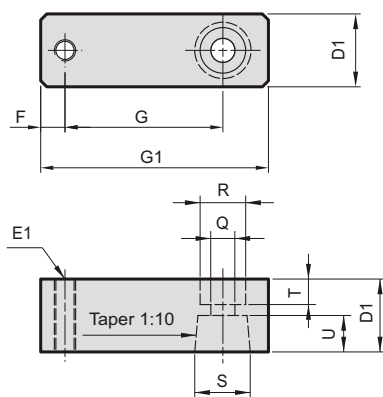
MTA* Clamping arm type $\phi 32 \sim \phi 63$

PNEUMATIC - Swing Clamp Cylinders



Single side clamping arm

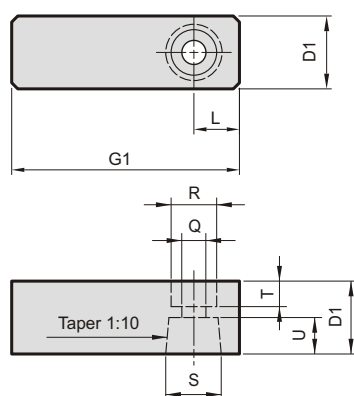
(Standard type with thread)



Code Model	D1	F	G	G1	E1	Q	R	S	T	U
MTAS-25	□15.9	6	35	50	M6×1.0	$\phi 6.8$	$\phi 11$	$\phi 14$	5	8.5
MTAS-32	□19	8	50	70	M8×1.25	$\phi 9$	$\phi 14$	$\phi 16$	7	9.5
MTAS-40	□19	8	55	75	M8×1.25	$\phi 9$	$\phi 14$	$\phi 16$	7	9.5
MTAS-50	□25.4	10	60	85	M10×1.5	$\phi 11$	$\phi 17$	$\phi 20$	9	12.5
MTAS-63	□25.4	10	70	95	M10×1.5	$\phi 11$	$\phi 17$	$\phi 20$	9	12.5

Single side clamping arm B type

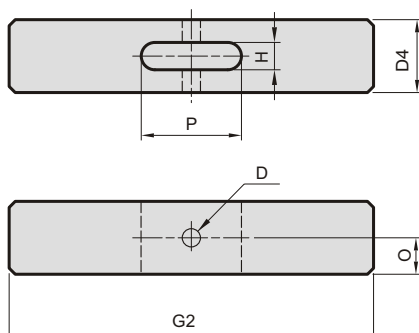
(Extension type without thread)



Code Model	D1	F	G1	L	Q	R	S	T	U
MTAS-25 B	□15.9	6	70	15	$\phi 6.8$	$\phi 11$	$\phi 14$	5	8.5
MTAS-32 B	□19	8	100	20	$\phi 9$	$\phi 14$	$\phi 16$	7	9.5
MTAS-40 B	□19	8	100	20	$\phi 9$	$\phi 14$	$\phi 16$	7	9.5
MTAS-50 B	□25.4	10	130	25	$\phi 11$	$\phi 17$	$\phi 20$	9	12.5
MTAS-63 B	□25.4	10	130	25	$\phi 11$	$\phi 17$	$\phi 20$	9	12.5

Double side clamping arm

(Standard & Extension type)



Double side clamping arm (Standard type)

Code Model	Tube I.D.	D	D4	G2	H	O	P
MTAD-32	$\phi 32$	$\phi 8$	□19	140	9	9.5	25
MTAD-40	$\phi 40$	$\phi 8$	□19	140	9	9.5	25
MTAD-50	$\phi 50$	$\phi 8$	□22.2	160	10	11.1	29
MTAD-63	$\phi 63$	$\phi 8$	□22.2	160	10	11.1	29

Double sideclamping arm B type (Extension type)

Code Model	Tube I.D.	D	D4	G2	H	O	P
MTAD-32 B	$\phi 32$	$\phi 8$	□19	200	9	9.5	25
MTAD-40 B	$\phi 40$	$\phi 8$	□19	200	9	9.5	25
MTAD-50 B	$\phi 50$	$\phi 8$	□22.2	230	10	11.1	29
MTAD-63 B	$\phi 63$	$\phi 8$	□22.2	230	10	11.1	29