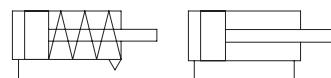


Miniature air cylinder with barb connector TKY Series

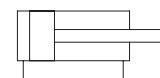


- Best suitable for space-saving design.
- You can select the most suitable type that conforms to your desired cylinder diameter, stroke and thrust.
- A mounting through hole is provided on the main housing.
- A female threading is provided at the end of the rod.
- One touch coupling is mounted.

Symbol



Single acting
extending type



Double acting

How to order

TKY	-	<input type="checkbox"/>	-	<input type="checkbox"/>
Acting type				
O	Single acting extending type		φ4.5 × 3	φ8 × 4
W	Double acting		φ4.5 × 6	φ8 × 8
			φ6 × 4	φ10 × 5
			φ6 × 8	φ10 × 10

Specifications

Bore size	mm	φ4.5	φ6	φ8	φ10
Operating type		Single acting extending type/Double acting			
Fluid		Non lubricated compressed air			
Proof pressure	MPa			-	
Max.operating pressure	MPa		0.6		
Min.operating pressure	MPa		0.2		
Ambient and fluid temp.	°C	0 ~ 60 *1)			
Cushion		Without			
Stroke allowance	mm	0 ~ +1.0			
Piston speed range	mm / s	50 ~ 750			

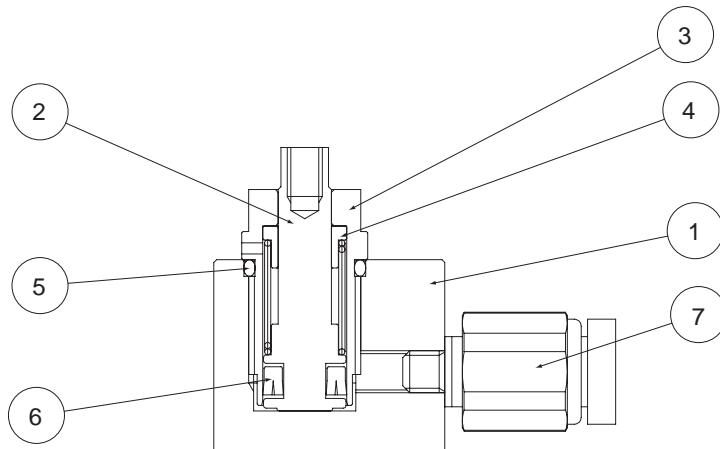
*1) When using under 5°C , dry air should be supplied to prevent drain from freezing.

Standard stroke

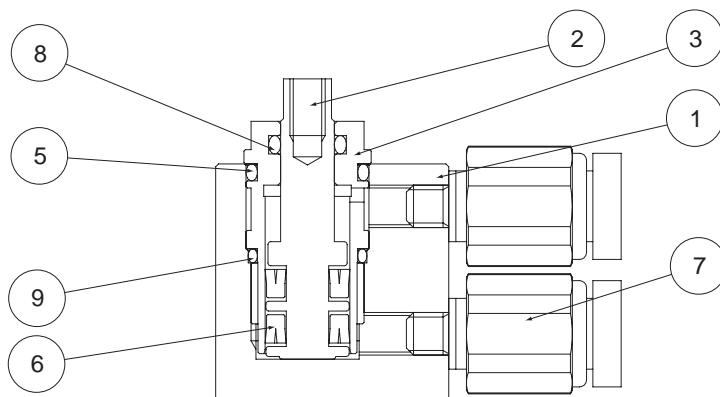
Bore size (mm)	Standard stroke
4.5	3, 6
6	4, 8
8	4, 8
10	5, 10

MKY/TKY structural drawing

Single acting extension type



Double acting type



Note) Drawing show a MKY series.

Main parts

No.	Name	material
1	Body	Aluminum
2	Piston	SUS
3	Rod cover	Brass
4	Spring	SUS
5	O-ring	H-NBR
6 *1	O-ring MINI Y packing	H-NBR

No.	Name	material
7 *2	One touch coupling	-
	volute coupling	Brass
8	O-ring	H-NBR
9	O-ring	H-NBR

*1 Use MINI Y Packing for cylinder I.D. ϕ 6 or more.

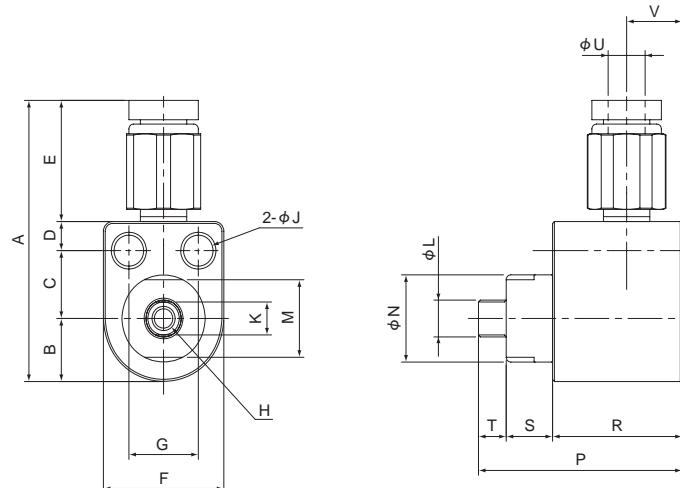
*2 MKY : One touch coupling mounting type. TYK : a volute coupling type.

Dimensions

Unit : mm <inch>

With push-in connector/Single acting : extending type

MKY-0



mm

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	screw
MKY-O-4.5×3	28.5	5.5	6	2.5	14.5	11	6.5	M2×0.4 depth 3.5	2.7	2.6	3	7	8	18	10	5	3	4	5	M3
MKY-O-4.5×6	28.5	5.5	6	2.5	14.5	11	6.5	M2×0.4 depth 3.5	2.7	2.6	3	7	8	24	16	5	3	4	5	M3
MKY-O-6×4	31	6.5	7	3	14.5	13	7.5	M2.5×0.45 depth 4	3.2	3.4	3.8	8	9	22	14	5	3	4	6	M3
MKY-O-6×8	31	6.5	7	3	14.5	13	7.5	M2.5×0.45 depth 4	3.2	3.4	3.8	8	9	31	23	5	3	4	6	M3
MKY-O-8×4	36	8	9	3	16	16	10	M3×0.5 depth 5	3.2	4.5	5.5	12	14	23	14	6	3	6	7	M5
MKY-O-8×8	36	8	9	3	16	16	10	M3×0.5 depth 5	3.2	4.5	5.5	12	14	31	22	6	3	6	7	M5
MKY-O-10×5	37	9	9	3	16	18	12	M3×0.5 depth 5	3.2	5	6	14	16	28	18	7	3	6	8	M5
MKY-O-10×10	37	9	9	3	16	18	12	M3×0.5 depth 5	3.2	5	6	14	16	39	29	7	3	6	8	M5

inch

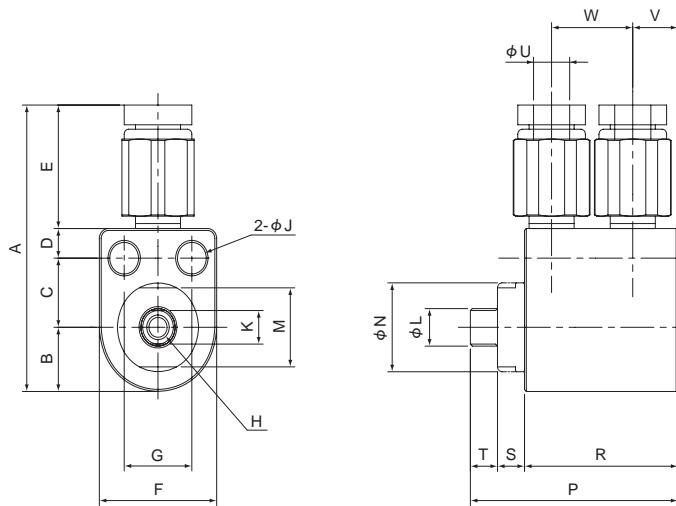
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	screw
MKY-O-4.5×3	1.12	0.22	0.24	0.1	0.57	0.43	0.26	M2×.016 depth 0.14	0.11	0.1	0.12	0.28	0.31	0.71	0.39	0.2	0.12	0.16	0.2	M3
MKY-O-4.5×6	1.12	0.22	0.24	0.1	0.57	0.43	0.26	M2×.016 depth 0.14	0.11	0.1	0.12	0.28	0.31	0.94	0.63	0.2	0.12	0.16	0.2	M3
MKY-O-6×4	1.22	0.26	0.28	0.12	0.57	0.51	0.3	M2.5×.018 depth 0.16	0.13	0.13	0.15	0.31	0.35	0.87	0.55	0.2	0.12	0.16	0.24	M3
MKY-O-6×8	1.22	0.26	0.28	0.12	0.57	0.51	0.3	M2.5×.018 depth 0.16	0.13	0.13	0.15	0.31	0.35	1.22	0.91	0.2	0.12	0.16	0.24	M3
MKY-O-8×4	1.42	0.31	0.35	0.12	0.63	0.63	0.39	M3×.02 depth 0.2	0.13	0.18	0.22	0.47	0.55	0.91	0.55	0.24	0.12	0.24	0.28	M5
MKY-O-8×8	1.42	0.31	0.35	0.12	0.63	0.63	0.39	M3×.02 depth 0.2	0.13	0.18	0.22	0.47	0.55	1.22	0.87	0.24	0.12	0.24	0.28	M5
MKY-O-10×5	1.46	0.35	0.35	0.12	0.63	0.71	0.47	M3×.02 depth 0.2	0.13	0.2	0.24	0.55	0.63	1.1	0.71	0.28	0.12	0.24	0.31	M5
MKY-O-10×10	1.46	0.35	0.35	0.12	0.63	0.71	0.47	M3×.02 depth 0.2	0.13	0.2	0.24	0.55	0.63	1.54	1.14	0.28	0.12	0.24	0.31	M5

Dimensions

Unit : mm <inch>

With push-in connector/Double acting

MKY-W



mm

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	screw
MKY-W-6×4	31	6.5	7	3	14.5	13	7.5	M2.5×0.45 depth 4	3.2	3.4	3.8	8	9	23	17	3	3	4	5	9	M3
MKY-W-6×8	31	6.5	7	3	14.5	13	7.5	M2.5×0.45 depth 4	3.2	3.4	3.8	8	9	27	21	3	3	4	6	12	M3
MKY-W-8×4	36	8	9	3	16	16	10	M3×0.5 depth 5	3.2	4.5	5.5	12	14	28	21	4	3	6	6	12	M5
MKY-W-8×8	36	8	9	3	16	16	10	M3×0.5 depth 5	3.2	4.5	5.5	12	14	30	23	4	3	6	6.5	12	M5
MKY-W-10×5	37	9	9	3	16	18	12	M3×0.5 depth 5	3.2	5	6	14	16	29	22	4	3	6	6.5	12	M5
MKY-W-10×10	37	9	9	3	16	18	12	M3×0.5 depth 5	3.2	5	6	14	16	33	26	4	3	6	9	12	M5

inch

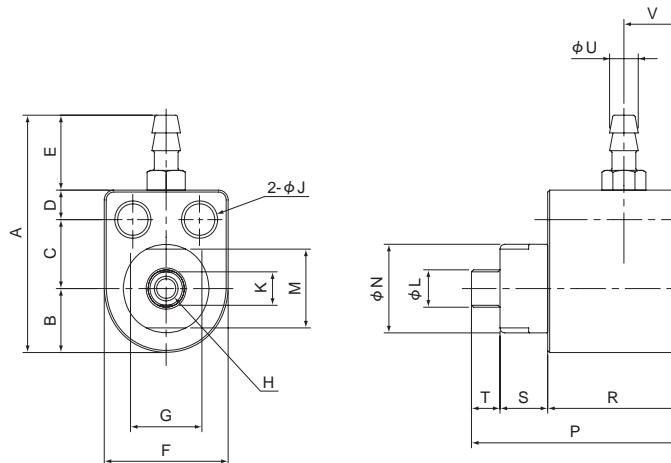
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	screw
MKY-W-6×4	1.22	0.26	0.28	0.12	0.57	0.51	0.3	M2.5×.018 depth 0.16	0.13	0.13	0.15	0.31	0.35	0.91	0.67	0.12	0.12	0.16	0.2	0.35	M3
MKY-W-6×8	1.22	0.26	0.28	0.12	0.57	0.51	0.3	M2.5×.018 depth 0.16	0.13	0.13	0.15	0.31	0.35	1.06	0.83	0.12	0.12	0.16	0.24	0.47	M3
MKY-W-8×4	1.42	0.31	0.35	0.12	0.63	0.63	0.39	M3×.02 depth 0.2	0.13	0.18	0.22	0.47	0.55	1.1	0.83	0.16	0.12	0.24	0.24	0.47	M5
MKY-W-8×8	1.42	0.31	0.35	0.12	0.63	0.63	0.39	M3×.02 depth 0.2	0.13	0.18	0.22	0.47	0.55	1.18	0.91	0.16	0.12	0.24	0.26	0.47	M5
MKY-W-10×5	1.46	0.35	0.35	0.12	0.63	0.71	0.47	M3×.02 depth 0.2	0.13	0.2	0.24	0.55	0.63	1.14	0.87	0.16	0.12	0.24	0.26	0.47	M5
MKY-W-10×10	1.46	0.35	0.35	0.12	0.63	0.71	0.47	M3×.02 depth 0.2	0.13	0.2	0.24	0.55	0.63	1.3	1.02	0.16	0.12	0.24	0.35	0.47	M5

Dimensions

Unit : mm <inch>

With barb connector/Single acting : extending type

TKY-0



mm

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	screw
TKY-O-4.5×3	21.6	5.5	6	2.5	7.6	11	6	M2 × 0.4 depth 3.5	2.7	2.6	3	7	8	18	10	5	3	3	5	M2.5
TKY-O-4.5×6	21.6	5.5	6	2.5	7.6	11	6	M2 × 0.4 depth 3.5	2.7	2.6	3	7	8	24	16	5	3	3	5	M2.5
TKY-O-6×4	24.1	6.5	7	3	7.6	13	7	M2.5 × 0.45 depth 4	3.2	3.4	3.8	8	9	22	14	5	3	3	6	M2.5
TKY-O-6×8	24.1	6.5	7	3	7.6	13	7	M2.5 × 0.45 depth 4	3.2	3.4	3.8	8	9	31	23	5	3	3	6	M2.5
TKY-O-8×4	36	8	9	3	16	16	10	M3 × 0.5 depth 5	3.2	4.5	5.5	12	14	23	14	6	3	5	7	M5
TKY-O-8×8	36	8	9	3	16	16	10	M3 × 0.5 depth 5	3.2	4.5	5.5	12	14	31	22	6	3	5	7	M5
TKY-O-10×5	37	9	9	3	16	18	12	M3 × 0.5 depth 5	3.2	5	6	14	16	28	18	7	3	5	8	M5
TKY-O-10×10	37	9	9	3	16	18	12	M3 × 0.5 depth 5	3.2	5	6	14	16	39	29	7	3	5	8	M5

inch

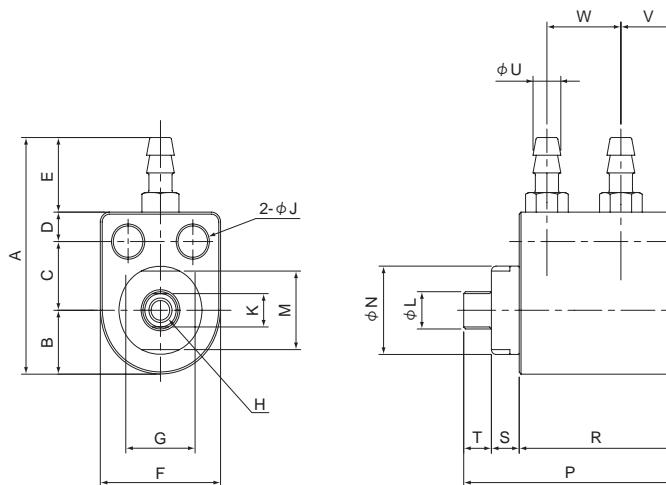
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	screw
TKY-O-4.5×3	0.85	0.22	0.24	0.1	0.3	0.43	0.24	M2 × .016 depth 0.14	0.11	0.1	0.12	0.28	0.31	0.71	0.39	0.2	0.12	0.12	0.2	M2.5
TKY-O-4.5×6	0.85	0.22	0.24	0.1	0.3	0.43	0.24	M2 × .016 depth 0.14	0.11	0.1	0.12	0.28	0.31	0.94	0.63	0.2	0.12	0.12	0.2	M2.5
TKY-O-6×4	0.95	0.26	0.28	0.12	0.3	0.51	0.28	M2.5 × .018 depth 0.16	0.13	0.13	0.15	0.31	0.35	0.87	0.55	0.2	0.12	0.12	0.24	M2.5
TKY-O-6×8	0.95	0.26	0.28	0.12	0.3	0.51	0.28	M2.5 × .018 depth 0.16	0.13	0.13	0.15	0.31	0.35	1.22	0.91	0.2	0.12	0.12	0.24	M2.5
TKY-O-8×4	1.42	0.31	0.35	0.12	0.63	0.63	0.39	M3 × .02 depth 0.2	0.13	0.18	0.22	0.47	0.55	0.91	0.55	0.24	0.12	0.2	0.28	M5
TKY-O-8×8	1.42	0.31	0.35	0.12	0.63	0.63	0.39	M3 × .02 depth 0.2	0.13	0.18	0.22	0.47	0.55	1.22	0.87	0.24	0.12	0.2	0.28	M5
TKY-O-10×5	1.46	0.35	0.35	0.12	0.63	0.71	0.47	M3 × .02 depth 0.2	0.13	0.2	0.24	0.55	0.63	1.1	0.71	0.28	0.12	0.2	0.31	M5
TKY-O-10×10	1.46	0.35	0.35	0.12	0.63	0.71	0.47	M3 × .02 depth 0.2	0.13	0.2	0.24	0.55	0.63	1.54	1.14	0.28	0.12	0.2	0.31	M5

Dimensions

Unit : mm <inch>

With barb connector/Double acting

TKY-W



mm

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	screw
TKY-W-4.5×3	21.6	5.5	6	2.5	7.6	11	6	M2 × 0.4 depth 3.5	2.7	2.6	3	7	8	20	14.6	2.4	3	3	5	6	M2.5
TKY-W-4.5×6	21.6	5.5	6	2.5	7.6	11	6	M2 × 0.4 depth 3.5	2.7	2.6	3	7	8	20	14.6	2.4	3	3	5	6	M2.5
TKY-W-6×4	24.1	6.5	7	3	7.6	13	7	M2.5 × 0.45 depth 4	3.2	3.4	3.8	8	9	23	17	3	3	3	6	8	M2.5
TKY-W-6×8	24.1	6.5	7	3	7.6	13	7	M2.5 × 0.45 depth 4	3.2	3.4	3.8	8	9	27	21	3	3	3	6	12	M2.5
TKY-W-8×4	36	8	9	3	16	16	10	M3 × 0.5 depth 5	3.2	4.5	5.5	12	14	28	21	4	3	5	7	9	M5
TKY-W-8×8	36	8	9	3	16	16	10	M3 × 0.5 depth 5	3.2	4.5	5.5	12	14	30	23	4	3	5	7	11	M5
TKY-W-10×5	37	9	9	3	16	18	12	M3 × 0.5 depth 5	3.2	5	6	14	16	29	22	4	3	5	8	9	M5
TKY-W-10×10	37	9	9	3	16	18	12	M3 × 0.5 depth 5	3.2	5	6	14	16	33	26	4	3	5	8	13	M5

inch

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	screw
TKY-W-4.5×3	0.85	0.22	0.24	0.1	0.3	0.43	0.24	M2 × .016 depth 0.14	0.11	0.1	0.12	0.28	0.31	0.79	0.57	0.09	0.12	0.12	0.2	0.24	M2.5
TKY-W-4.5×6	0.85	0.22	0.24	0.1	0.3	0.43	0.24	M2 × .016 depth 0.14	0.11	0.1	0.12	0.28	0.31	0.79	0.57	0.09	0.12	0.12	0.2	0.24	M2.5
TKY-W-6×4	0.95	0.26	0.28	0.12	0.3	0.51	0.28	M2.5 × .018 depth 0.16	0.13	0.13	0.15	0.31	0.35	0.91	0.67	0.12	0.12	0.12	0.24	0.31	M2.5
TKY-W-6×8	0.95	0.26	0.28	0.12	0.3	0.51	0.28	M2.5 × .018 depth 0.16	0.13	0.13	0.15	0.31	0.35	1.06	0.83	0.12	0.12	0.12	0.24	0.47	M2.5
TKY-W-8×4	1.42	0.31	0.35	0.12	0.63	0.63	0.39	M3 × .02 depth 0.2	0.13	0.18	0.22	0.47	0.55	1.1	0.83	0.16	0.12	0.2	0.28	0.35	M5
TKY-W-8×8	1.42	0.31	0.35	0.12	0.63	0.63	0.39	M3 × .02 depth 0.2	0.13	0.18	0.22	0.47	0.55	1.18	0.91	0.16	0.12	0.2	0.28	0.43	M5
TKY-W-10×5	1.46	0.35	0.35	0.12	0.63	0.71	0.47	M3 × .02 depth 0.2	0.13	0.2	0.24	0.55	0.63	1.14	0.87	0.16	0.12	0.2	0.31	0.35	M5
TKY-W-10×10	1.46	0.35	0.35	0.12	0.63	0.71	0.47	M3 × .02 depth 0.2	0.13	0.2	0.24	0.55	0.63	1.3	1.02	0.16	0.12	0.2	0.31	0.51	M5