

Series UACPS

Standard Type/Single Acting Spring Return, Spring Extended

Bore Size mm(inch) : $\phi 6(1/4\text{Nom.})$, $\phi 10(3/8\text{Nom.})$, $\phi 16(5/8\text{Nom.})$

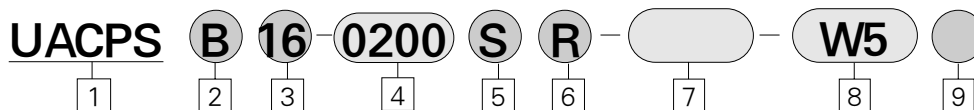


- STAINLESS STEEL BODY
- HIGH CYCLE LIFE
- BUMPERS STANDARD
- BUILT - IN MAGNET
- COMPACT LIGHT DESIGN
- MANUFACTURING CERTIFIED TO ISO 9001/9002 STANDARDS

Symbol Single Acting/Single Rod



How to Order



1 Air Cylinder
Built-in magnet, Rubber cushions are standard.

2 Mounting
B : Basic type
L : Axial foot type
F : Rod side flange type
D : Double Clevis type
(Except for $\phi 6$)

3 Bore Size(inch)
6 : $\phi 6(1/4\text{Nom.})$
10 : $\phi 10(3/8\text{Nom.})$
16 : $\phi 16(5/8\text{Nom.})$

4 Stroke/Hundredth of an inch
* For Stroke Refer to page A-32

5 Action
S : Single Acting Spring Return
T : Single Acting Spring Extended

6 Port Location on Head Cover

Symbol	Bore size	
	$\phi 6$	$\phi 10, \phi 16$
R	-	in-line
Blank	in-line	Rear port

7 Special Options

Blank : Standard
XC16 : Copper-free

8 Applicable Auto Switch

Reed Switch
(Band mounted type)
W5 : Reed Switch

* Standard Lead 0.5m(Up to 3m Optional)

9 Number of Switches

Blank : 2 pcs.
S : 1 pc.
N : (n) pcs.

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PART No. of Mounting Bracket

Mounting Bracket	Bore Size(inch)		
	φ 6(1/4 Nom.)	φ 10(3/8 Nom.)	φ 16(5/8 Nom.)
Foot	ACP006-19	ACP010-19	ACP016-19
Flange	ACP006-20	ACP010-20	ACP016-20
※T Mounting	-	ACP010-42B	ACP016-42B

※T Mounting : Double clevis type(D)

PART No. of Auto Switch Mounting Band

Bore Size mm(inch)	PART No. of Auto Switch Mounting Band	Note
φ 6(1/4 Nom.)	ACP006	Common use to all of W5□ types
φ 10(3/8 Nom.)	ACP010	
φ 16(5/8 Nom.)	ACP016	

Standard Type/Single Acting : Single Rod/Series UACPS

Specifications

Action	Spring Return	Spring Extended	
Fluid	Air		
Proof Pressure	149 PSI(1.05MPa)		
Max. Operating Oressure	100 PSI(0.70MPa)		
Min. Operating Pressure	φ 0.24	28 PSI	36 PSI
	φ 0.39, φ 0.63	17 PSI	
Ambient and Fluid Temperature	40~140 ° F (5~60℃)		
Cushion	Rubber cushion (Standard)		
Lubrication	None (Non-Lube)		
Piston Speed	50~750 mm/sec. (2~29.5 in/sec)		

Auto Switch Specifications

Mounting	Bore Size mm(inch)	Reed Switch
		Grommet
Band Mounted Type	φ6(1/4 Nom.), φ10(3/8 Nom.), φ16(5/8 Nom.)	W5 Type

Standard Stroke (inch×100)

Bore Size mm(inch)	Standard Stroke
φ 6(1/4 Nom.)	0050, 0100, 0150, 0200
φ 10(3/8 Nom.)	0050, 0100, 0150, 0200
φ 16(5/8 Nom.)	0050, 0100, 0150, 0200

Spring Retracting Force (lbs)

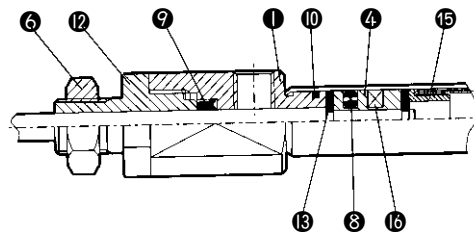
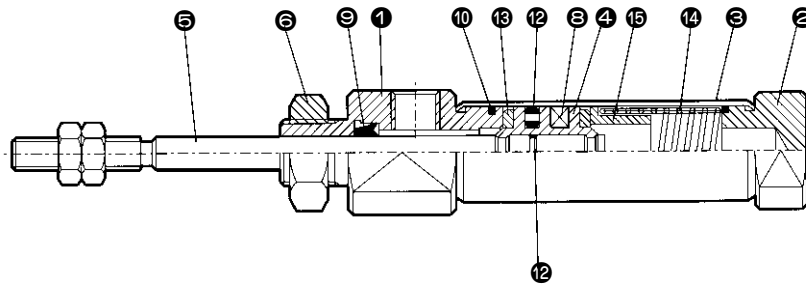
Bore Size mm(inch)	Extended Position	Retracted Position
φ 6(1/4 Nom.)	0.84	0.40
φ 10(3/8 Nom.)	1.54	0.79
φ 16(5/8 Nom.)	3.20	1.54

Mounting and Accessories

Mounting		Basic Type	Axial Foot Type	Rod Side Flange Type	Double Clevis Type
Standard	Mounting Nut	●	●	●	-
	Rod end Nut	-	-	-	-
	Clevis Pin	-	-	-	●
Option	Single Knuckle Joint	●	●	●	●
	Double Knuckle Joint(with pin)	●	●	●	●
	T Mounting	-	-	-	●

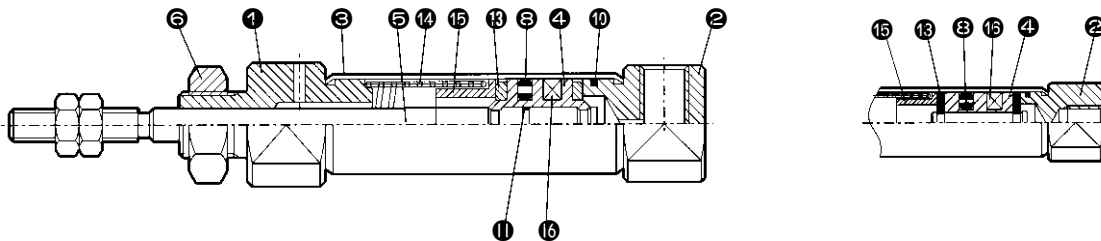
Construction/Parts List

Single Acting/Spring Extended
UACPS□□ - □□□ T



UACPS6 Rod Cover, Piston

Single Acting/Spring Return
UACPS□□ - □□□ S



UACPS6 Head cover, Piston

Parts List

No.	Description	Material	Note
①	Rod Cover	Aluminum Alloy	White Alumite
②	Head Cover	Aluminum Alloy	White Alumite
③	Cylinder Tube	Stainless Steel	-
④	Piston	Brass	-
⑤	Piston Rod	Stainless Steel	-
⑥	Mounting Nut	Brass	Nickel Plated
⑧	Piston Packing	NBR	-

Standard Type/Single Acting : Single Rod/Series UACPSB

No.	Description	Material	Note
⑨	Rod packing	NBR	-
⑩	Tube gasket	NBR	-
⑪	Piston gasket	NBR	-
⑫	Packing retainer	Aluminum Alloy	White Alumite
⑬	Bumper	Urethane	-
⑭	Return spring	Piano Wire	-
⑮	Spring seat	Brass	-
⑯	Magnet	-	-

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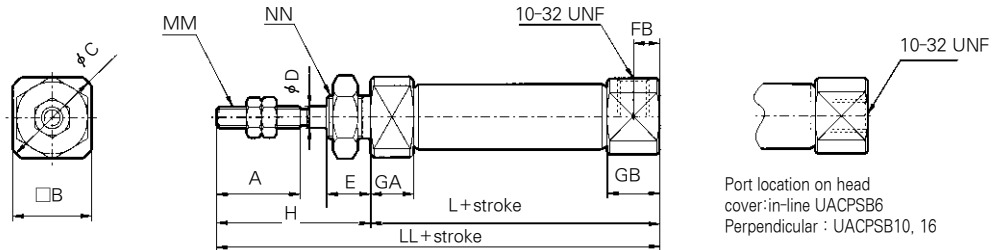
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Series UACPS

Spring Return/Standard Type(UACPSB)

UACPSB Bore Size Stroke S Port location on Head Cover

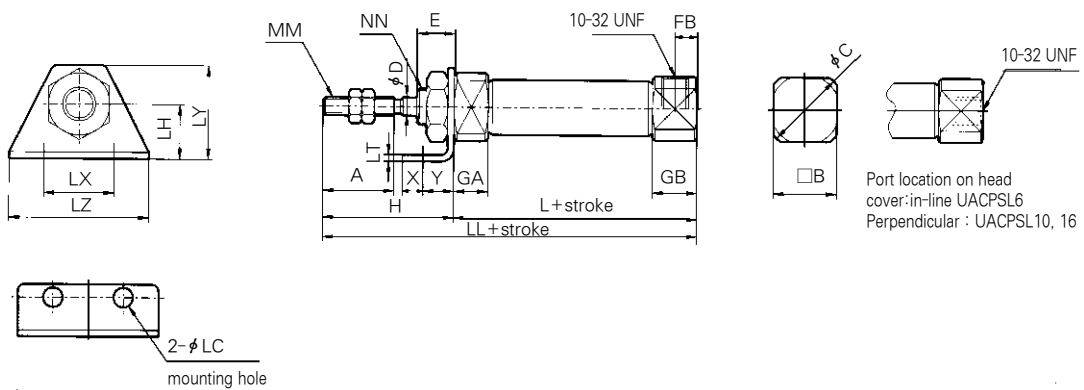


(inch)

Bore size	A	B	C	D	E	FB	H	MM	GA	GB	NN	L				LL			
												5~15 ST	16~30 ST	31~45 ST	46~60 ST	5~15 ST	16~30 ST	31~45 ST	46~60 ST
φ6(1/4 Nom.)	0.59	0.31	0.35	0.12	0.32	-	1.10	No.5-40 UNC	0.12	0.28	1/4-28 UNC	1.56	1.91	2.07	2.62	2.66	3.01	3.17	3.72
φ10(3/8 Nom.)	0.59	0.47	0.55	0.16	0.32	0.20	1.10	No.6-40 UNF	0.22	0.37	5/16-24 UNC	1.83	2.13	2.60	3.07	2.93	3.23	3.70	4.17
φ16(5/8 Nom.)	0.59	0.71	0.79	0.20	0.32	0.20	1.10	No.10-32 UNF	0.22	0.37	3/8-24 UNC	1.81	2.16	2.62	3.09	2.91	3.25	3.72	4.19

Spring Return/Axial Foot Type (UACPSL)

UACPSL Bore Size Stroke S Port Location on Head Cover

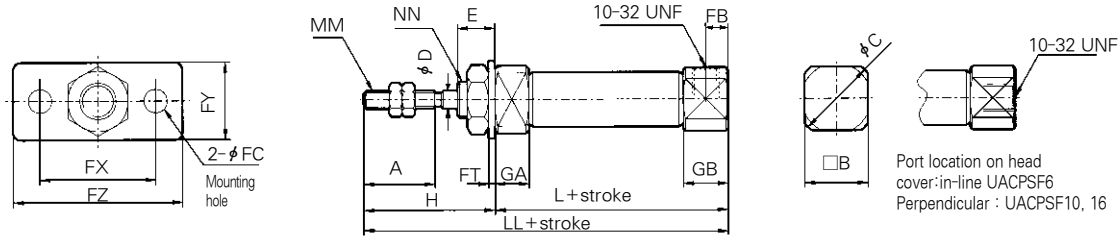


(inch)

Bore size	A	B	C	D	E	FB	H	LC	LH	LT	LX	LY	LZ	MM	GA	GB	NN	X	Y	L				LL			
																				5~15 ST	16~30 ST	31~45 ST	46~60 ST	5~15 ST	16~30 ST	31~45 ST	46~60 ST
φ6(1/4 Nom.)	0.59	0.31	0.35	0.12	0.31	-	1.10	0.18	0.35	0.06	0.95	0.65	1.26	No.5-40 UNC	0.12	0.28	1/4-28 UNF	0.20	0.28	1.56	1.91	2.07	2.62	2.66	3.01	3.17	3.72
φ10(3/8 Nom.)	0.59	0.47	0.55	0.16	0.31	0.20	1.10	0.18	0.35	0.06	0.95	0.65	1.26	No.6-40 UNF	0.22	0.37	5/16-24 UNF	0.20	0.28	1.83	2.13	2.60	3.07	2.93	3.23	3.70	4.17
φ16(5/8 Nom.)	0.59	0.71	0.79	0.20	0.31	0.20	1.10	0.22	0.55	0.09	1.30	0.98	1.65	No.10-32 UNF	0.22	0.37	3/8-24 UNF	0.24	0.35	1.81	2.16	2.62	3.09	2.91	3.25	3.72	4.19

Spring Return/Rod Side Flange Type (UACPSF)

UACPSF Bore Size Stroke S Port location on head cover



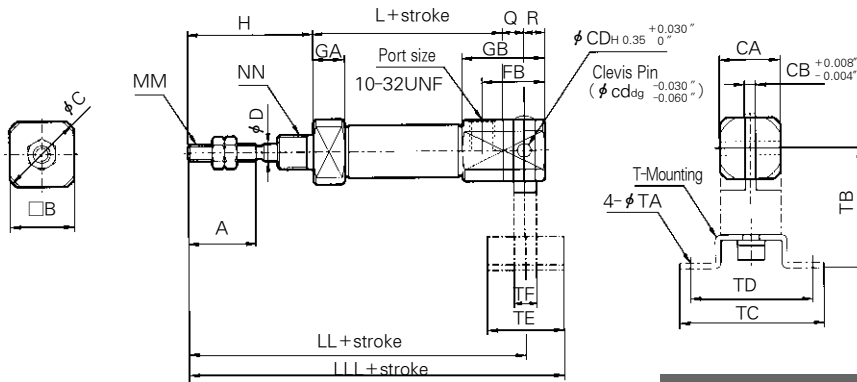
Port location on head cover: in-line UACPSF6
Perpendicular: UACPSF10, 16

(inch)

Bore size	A	B	C	D	E	FC	FT	FX	FY	FZ	FB	H	MM	GA	GB	NN	L				LL			
																	5~15ST	16~30ST	31~45ST	46~60ST	5~15ST	16~30ST	31~45ST	46~60ST
φ6(1/4 Nom.)	0.59	0.32	0.35	0.12	0.31	0.18	0.06	0.95	0.55	1.26	-	1.10	No.5-40 UNC	0.12	0.28	1/4-28 UNF	1.56	1.91	2.07	2.62	2.66	3.01	3.17	3.72
φ10(3/8 Nom.)	0.59	0.47	0.55	0.16	0.31	0.18	0.06	0.95	0.55	1.26	0.20	1.10	No.6-40 UNF	0.22	0.37	5/16-24 UNF	1.83	2.13	2.60	3.07	2.93	3.23	3.70	4.17
φ16(5/8 Nom.)	0.59	0.71	0.79	0.29	0.31	0.22	0.09	1.30	0.78	1.65	0.20	1.10	No.10-32 UNF	0.22	0.37	3/8-24 UNF	1.81	2.16	2.62	3.09	2.91	3.25	3.72	4.19

Spring Return/Double Clevis Type (UACPSD)

UACPSD Bore size Stroke S Port location on head cover



T Mounting (inch)

Bore size	TA	TB	TC	TD	TE	TF
φ 10(3/8 Nom.)	0.18	1.42	1.58	1.26	0.87	0.47
φ 16(5/8 Nom.)	0.22	1.38	1.89	1.50	1.10	0.63

(inch)

Bore size	A	B	C	CA	CB	CD (cd)	D	FB	GA	GB	H	MM	Q	R	L				LL				LLL			
															5~15ST	16~30ST	31~45ST	46~60ST	5~15ST	16~30ST	31~45ST	46~60ST	5~15ST	16~30ST	31~45ST	46~60ST
φ 10(3/8 Nom.)	0.59	0.47	0.55	0.47	0.13	0.13	0.16	0.71	0.22	0.89	1.10	No.6-40 UNF	0.32	0.20	1.83	2.13	2.60	3.07	3.25	3.54	4.02	4.49	3.68	3.98	4.45	4.92
φ 16(5/8 Nom.)	0.59	0.71	0.79	0.71	0.26	0.20	0.20	0.91	0.22	1.08	1.10	No.10-32 UNF	0.39	0.32	1.81	2.16	2.62	3.09	3.31	3.64	4.11	4.59	3.86	4.19	4.67	5.14

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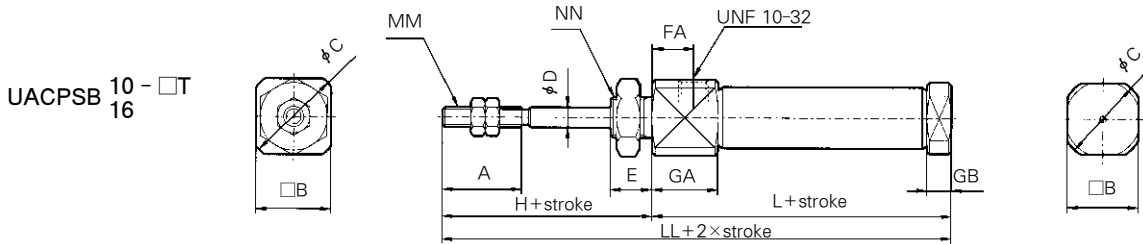
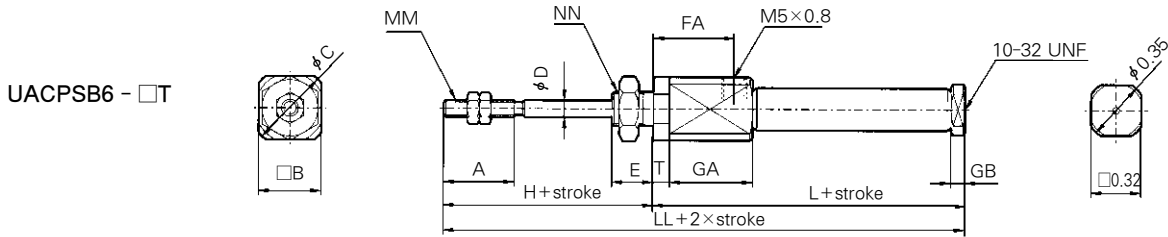
AST

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Series UACPS

Spring Extended/Basic Type(UACPSB)

UACPSB Bore size Stroke T

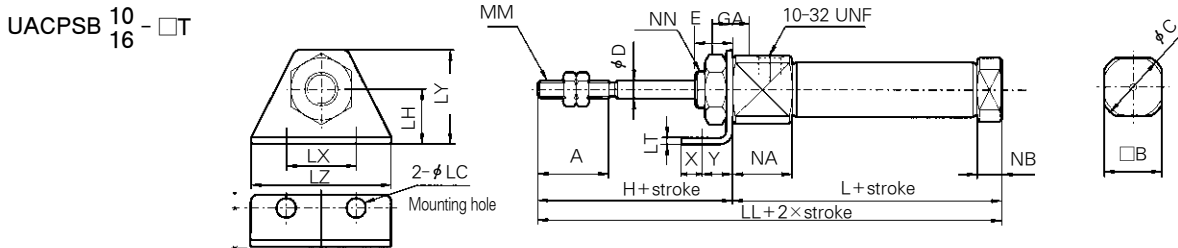
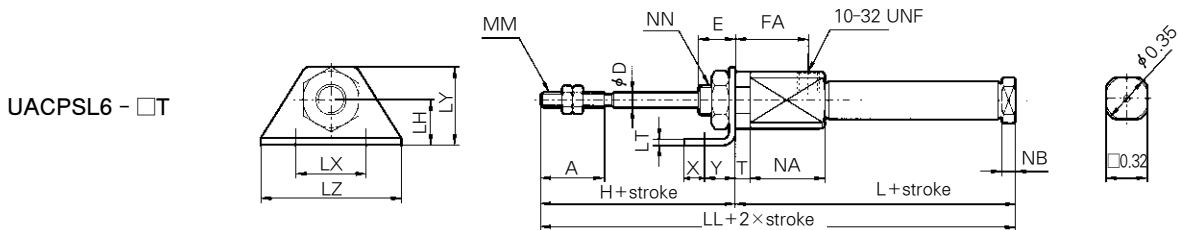


(inch)

Bore size	A	B	C	D	E	FA	H	MM	GA	GB	NDh8	T	NN	L				LL			
														5~15ST	16~30ST	31~45ST	46~60ST	5~15ST	16~30ST	31~45ST	46~60ST
#6(1/4 Nom.)	0.59	0.47	0.55	0.12	0.31	0.57	1.10	No.5-40 UNC	0.63	0.12	0.24 ⁰ _{-0.018}	0.12	1/4-28 UNF	2.03	2.38	2.54	3.09	3.13	3.48	3.64	4.19
#10(3/8 Nom.)	0.59	0.47	0.55	0.16	0.31	0.20	1.10	No.6-40 UNF	0.49	0.22	0.32 ⁰ _{-0.022}	-	5/16-24 UNF	1.95	2.24	2.72	3.19	3.05	3.35	3.82	4.29
#16(5/8 Nom.)	0.59	0.71	0.79	0.20	0.31	0.20	1.10	No.10-32 UNF	0.49	0.22	0.39 ⁰ _{-0.022}	-	3/8-24 UNF	1.93	2.26	2.74	3.21	3.03	3.37	3.84	4.31

Spring Extended/Axial Foot Type(UACPSL)

UACPSL Bore size Stroke T

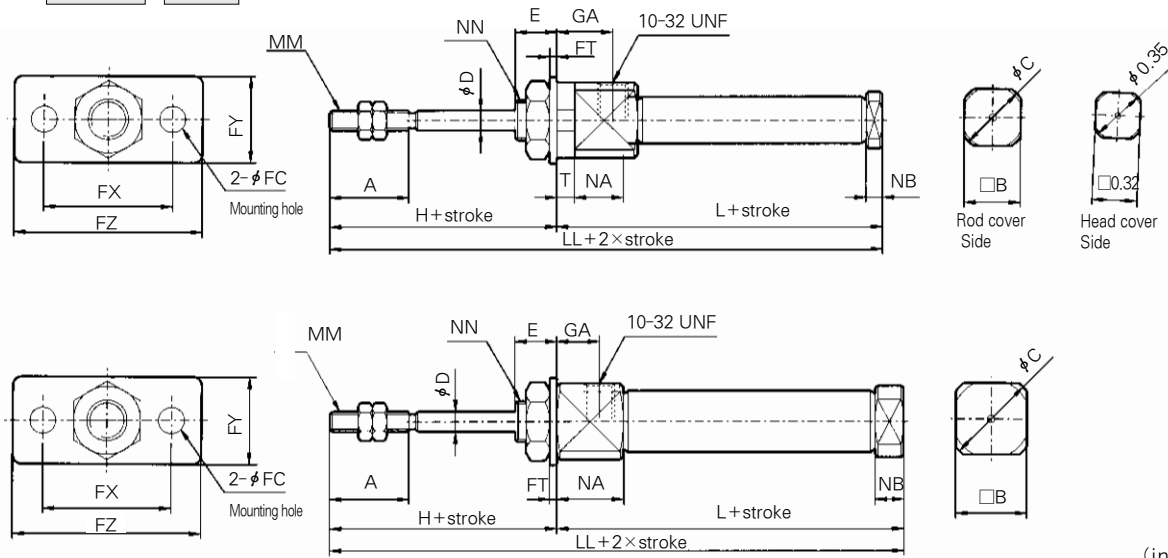


(inch)

Bore size	A	B	C	D	E	GA	H	LC	LH	LT	LX	LY	LZ	MM	NA	NB	T	X	Y	NN	L				LL			
																					5~15ST	16~30ST	31~45ST	46~60ST	5~15ST	16~30ST	31~45ST	46~60ST
#6(1/4 Nom.)	0.59	0.47	0.55	0.12	0.31	0.57	1.10	0.18	0.35	0.06	0.95	0.65	1.26	No.5-40 UNC	0.63	0.12	0.12	0.20	0.28	1/4-28 UNF	2.03	2.38	2.54	3.09	3.13	3.48	3.64	4.19
#10(3/8 Nom.)	0.59	0.47	0.55	0.16	0.31	0.32	1.10	0.18	0.35	0.06	0.95	0.65	1.26	No.6-40 UNF	0.49	0.22	-	0.20	0.28	5/16-24 UNF	1.95	2.24	2.72	3.19	3.05	3.35	3.82	4.29
#16(5/8 Nom.)	0.59	0.71	0.79	0.20	0.31	0.32	1.10	0.22	0.55	0.09	1.30	0.98	1.65	No.10-32 UNF	0.49	0.22	-	0.24	0.35	3/8-24 UNF	1.93	2.26	2.74	3.21	3.03	3.37	3.84	4.31

Spring Extended/Rod Side Flange Type (UACPSF)

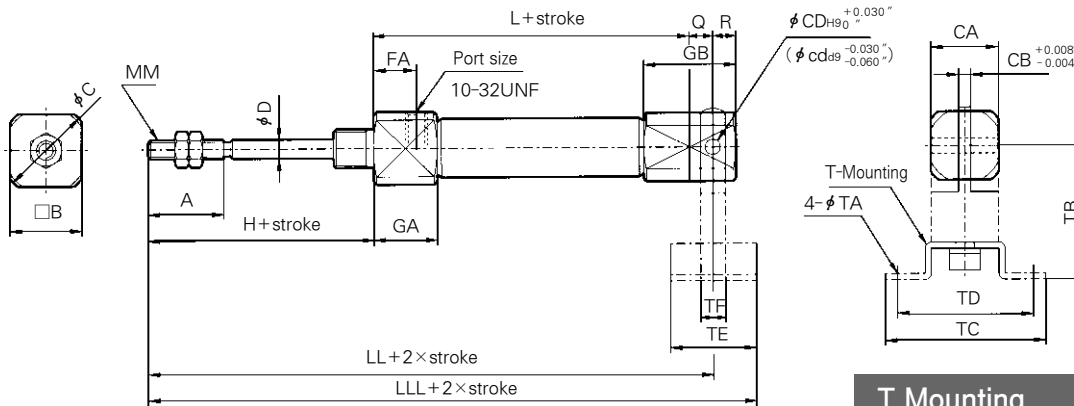
UACPSF **Bore Size** **Stroke** T



Bore size	A	B	C	D	E	FC	FT	FX	FY	FZ	GA	H	MM	NA	NB	T	NN	L				LL			
																		5~15ST	16~30ST	31~45ST	46~60ST	5~15ST	16~30ST	31~45ST	46~60ST
φ6(1/4 Nom.)	0.59	0.47	0.55	0.12	0.31	0.18	0.06	0.95	0.55	1.26	0.57	1.10	No.5-40 UNF	0.24	0.12	0.12	1/4-28 UNF	2.03	2.38	2.54	3.09	3.13	3.48	3.64	4.19
φ10(3/8 Nom.)	0.59	0.47	0.55	0.16	0.31	0.18	0.06	0.95	0.55	1.26	0.32	1.10	No.6-40 UNF	0.49	0.22	-	5/16-24 UNF	1.95	2.24	2.72	3.19	3.05	3.35	3.82	4.29
φ16(5/8 Nom.)	0.59	0.71	0.79	0.20	0.31	0.22	0.09	1.30	0.79	1.65	0.32	1.10	No.10-32 UNF	0.49	0.22	-	3/8-24 UNF	1.93	2.26	2.74	3.21	3.03	3.37	3.84	4.31

Spring Extended/Double Clevis Type (UACPSD)

UACPSD **Bore size** **Stroke** T



T Mounting						
Bore size	TA	TB	TC	TD	TE	TF
φ10(3/8 Nom.)	0.18	1.14	1.58	1.26	0.87	0.47
φ16(5/8 Nom.)	0.22	1.38	1.89	1.50	1.10	0.63

Bore size	A	B	C	CA	CB	CD (cd)	D	FB	GA	GB	H	MM	Q	R	L				LL				LLL			
															15~15ST	16~30ST	31~45ST	46~60ST	15~15ST	16~30ST	31~45ST	46~60ST	15~15ST	16~30ST	31~45ST	46~60ST
φ10(3/8 Nom.)	0.59	0.47	0.55	0.47	0.13	0.13	0.16	0.32	0.49	0.89	1.10	No.6-40 UNF	0.32	0.20	2.11	2.40	2.87	3.35	3.52	3.82	4.29	4.76	3.96	4.25	4.72	5.20
φ16(5/8 Nom.)	0.59	0.71	0.79	0.71	0.26	0.20	0.20	0.32	0.49	1.08	1.10	No.10-32 UNF	0.39	0.32	2.09	2.42	2.89	3.37	3.58	3.92	4.39	4.86	4.13	4.47	4.94	5.41

- ACP
- UACP**
- AX
- AS
- AM
- AL
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- UAQ
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