TPNU / TPCU

Round Cylinder 원형 실린더



특징(Features)

- 직경 ø8 ~ 40mm
- 스트로크 25 ~ 500mm
- 속도 50 ~ 800 mm/s
- 러버 쿠션(TPNU) , 에어 쿠션(TPCU)

주문코드

TP*U - □ - □ - □ - □

① ② ③ ④ ⑤

01	실린더 타입
TPCU	에어 쿠션
TPNU	러버 쿠션

02	실린더 직경 (mm)
8	8
10	10
12	12
16	16
20	20
25	25
32	32
40	40

03	스트로크 (mm)
15	15
....	....
500	최대

04	자석내장
S	자석 내장
무기호	없음

05	마운트 브라켓
무기호	없음
LB	풋 (L 2개)
FA	플랜지
SDB	바닥면 클래비스

Bore	표준 스트로크 (mm)																		Max
8	15	20	25	30	40	50	60	75	80	100	125	150							150
10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200				200
12	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250			250
16	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500
20	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500
25	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500
32	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500
40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500

자주 사용하는 주문코드

모델명(기본형)- 러버쿠션
TPNU-8-100-S
TPNU-10-100-S
TPNU-12-100-S
TPNU-16-100-S
TPNU-20-200-S
TPNU-25-200-S
TPNU-32-200-S
TPNU-40-200-S

모델명(풋-마운트)
TPNU-8-100-S-LB
TPNU-10-100-S-LB
TPNU-12-100-S-LB
TPNU-16-100-S-LB
TPNU-20-200-S-LB
TPNU-25-200-S-LB
TPNU-32-200-S-LB
TPNU-40-200-S-LB

모델명(플랜지-마운트)
TPNU-8-100-S-FA
TPNU-10-100-S-FA
TPNU-12-100-S-FA
TPNU-16-100-S-FA
TPNU-20-200-S-FA
TPNU-25-200-S-FA
TPNU-32-200-S-FA
TPNU-40-200-S-FA

모델명(바닥면 클래비스)
TPNU-8-100-S-SDB
TPNU-10-100-S-SDB
TPNU-12-100-S-SDB
TPNU-16-100-S-SDB
TPNU-20-200-S-SDB
TPNU-25-200-S-SDB
TPNU-32-200-S-SDB
TPNU-40-200-S-SDB

모델명(기본형)-에어쿠션
TPCU-16-100-S
TPCU-20-200-S
TPCU-25-200-S
TPCU-32-200-S
TPCU-40-200-S

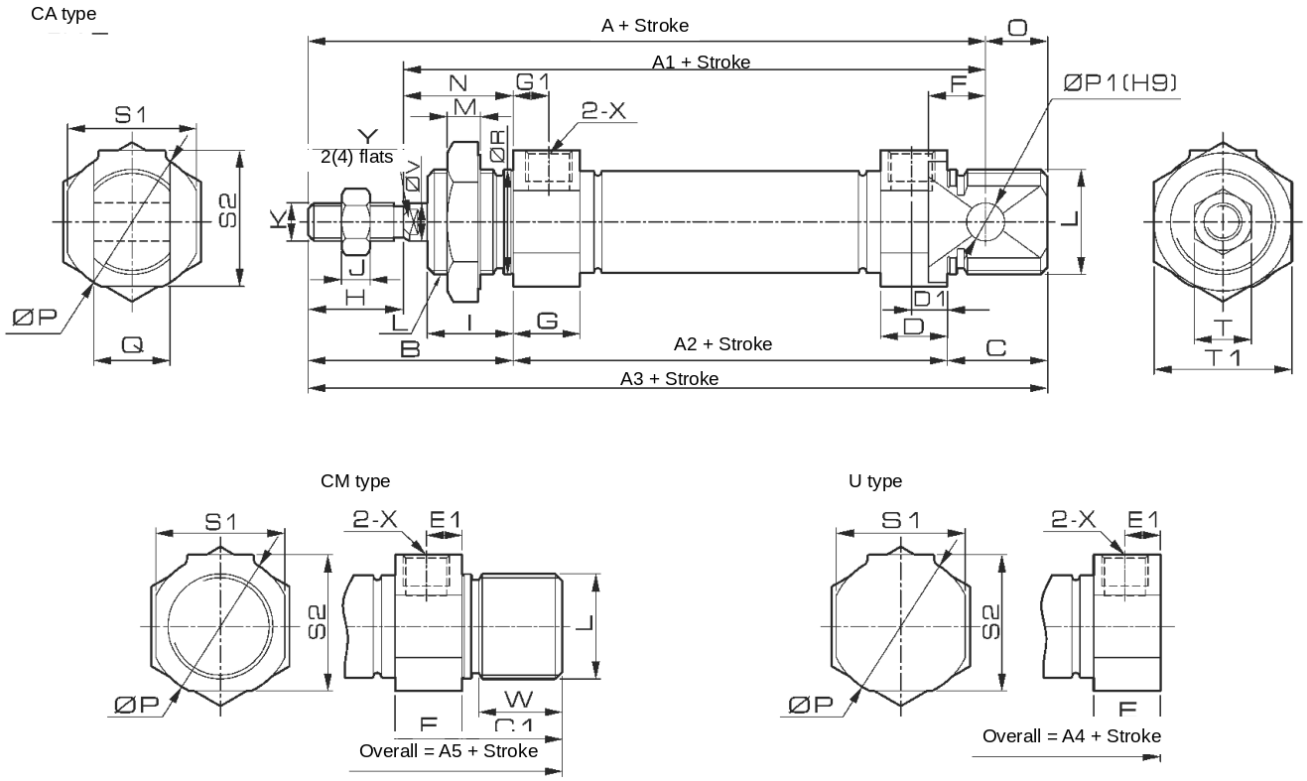
데이터 시트

일반 기술 자료								
실린더 직경	8	10	12	16	20	25	32	40
공압 연결	M5	M5	M5	M5	G1/8	G1/8	G1/8	G1/8
작동 압력	0.1 ... 1.0 MPa							
디자인	복동 실린더							
스트로크	25... 500 mm							
속도 범위	50 ... 800 mm/s							
쿠션	러버 쿠션, 에어 쿠션							
실린더 스트로크의 허용차	0...+1.5mm							
인증	ISO 6432 표준 준수							

작동 및 환경 조건	
사용매체	압축공기
주위온도 및 사용유체온도	-20 ~ +80°C

재질	
하우징	알루미늄 합금
피스톤 로드	탄소강 경질 크롬도금
패킹	NBR, PU

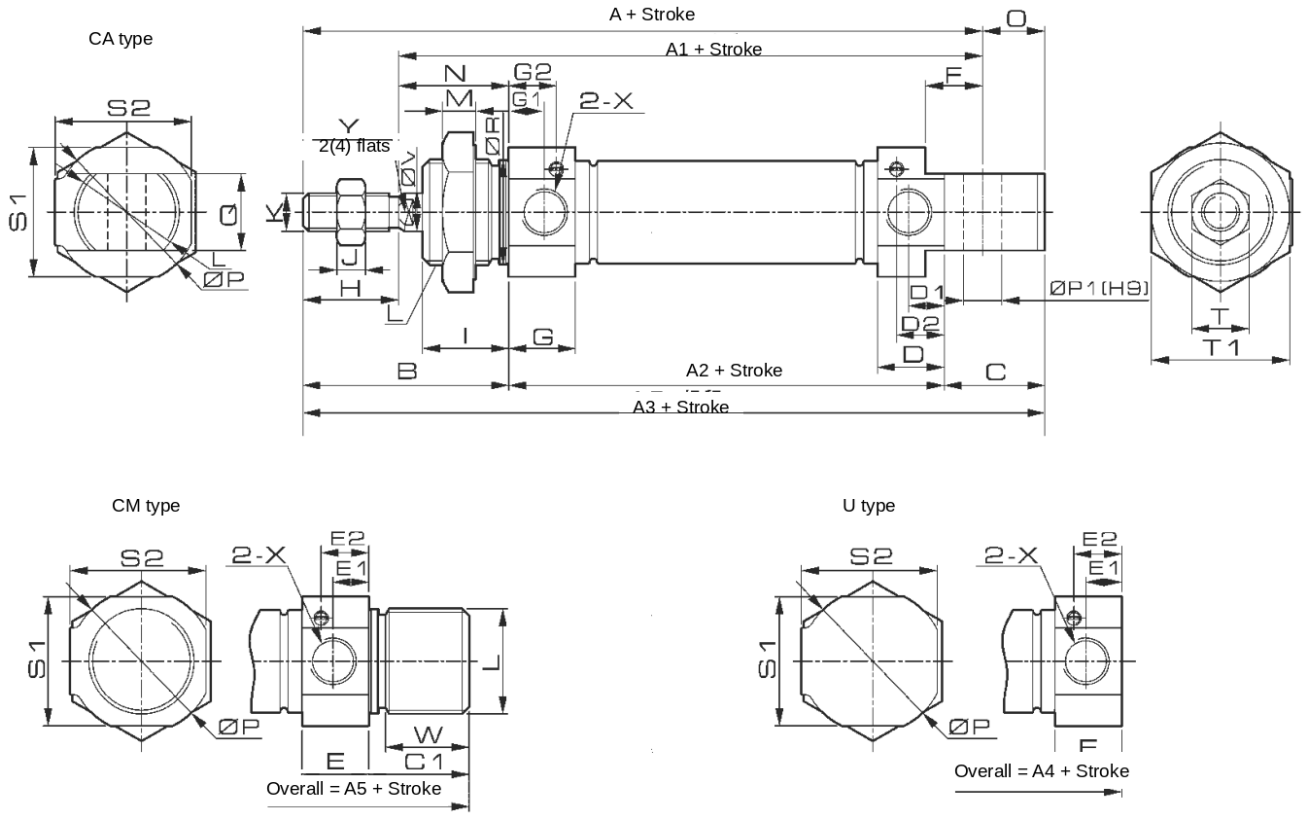
TPNU 러버 쿠션형



Bore	A	A1	A2	A3	A4	A5	B	C	C1	D	D1	E	E1	F	G	G1	H	I
8	76	64	46	86	74	86	28	12	12	10	5.5	10	5.5	6	10	5.5	12	12
10	76	64	46	86	74	86	28	12	12	10	5.5	10	5.5	6	10	5.5	12	12
12	91	74	50	105	88	105	38	17	17	10	6	10	6	9	10	6	16	17
16	98	82	55	111	92	111	37	19	19	10.5	6	10.5	6	9	10.5	6	16	16
20	115	95	64	128	107	128	43	21	21	14	7.5	1	7.5	12	14	7.5	20	18
25	126	104	66	137	116	137	50	21	21	15	8	15	8	12	15	8	22	22
32	135	113	72	147	120	132	48	27	12	17	8.5	17	8.5	15	17	8.5	22	18
40	138	115	72	150	123	136	51	27	14	16	8	16	8	15	16	8	23	20

Bore	J	K	L	M	N	O	P	P1	Q	R	S1	S2	T	T1	X	V	W	Y
8	6	M4x0.7	M12x1.25	6	16	10	17	4	8	12	15	15	7	17	M4x0.7	4	9.3	-
10	6	M4x0.7	M12x1.25	6	16	10	17	4	8	12	15	15	7	17	M4x0.7	4	9.3	-
12	5	M6x1	M16x1.5	6	22	14	21	6	12	16	19	19	10	24	M4x0.7	6	14	5
16	5	M6x1	M16x1.5	6	21	13	21	6	12	16	19	19	10	24	M4x0.7	6	15.5	5
20	6	M8x1.25	M22x1.5	7	23	13	30	8	16	22	27	28.5	14	29	M4x0.7	8	17.5	6
25	6	M10x1.25	M22x1.5	7	28	11	30	8	16	22	27	28.5	17	29	M4x0.7	10	17.5	8
32	6	M10x1.25	M27x2	9	26	12	38	10	20	27	35	36.5	17	36	M4x0.7	12	8	10
40	8	M14x1.5	M33x2	9	28	12	45	10	20	33	42	43.5	22	45	M4x0.7	16	10	14

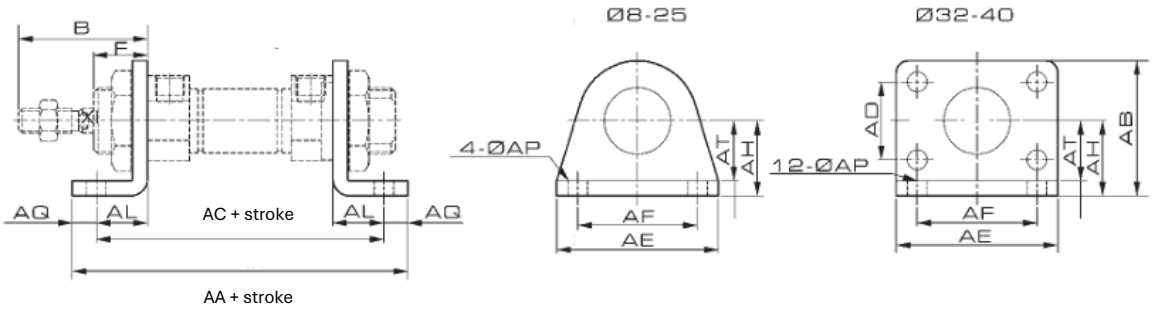
TPCU 에어 쿠션형



Bore	A	A1	A2	A3	A4	A5	B	C	C1	D	D1	D2	E	E1	E2	F	G	G1	G2	H	I
16	98	82	55	111	92	111	37	19	19	10.5	6	7	10.5	6	7	9	10.5	6	7	16	16
20	115	95	64	128	107	128	43	21	21	14	7.5	10	14	7.5	10	12	14	7.5	10	20	18
25	126	104	66	137	116	137	50	21	21	15	8	10.5	15	8	10.5	12	15	8	10.5	22	22
32	135	113	72	147	120	132	48	27	12	17	8.5	12	17	8.5	12	15	17	8.5	12	22	18
40	138	115	72	150	123	136	51	27	14	16	8	11.5	16	8	11.5	15	16	8	11.5	23	20

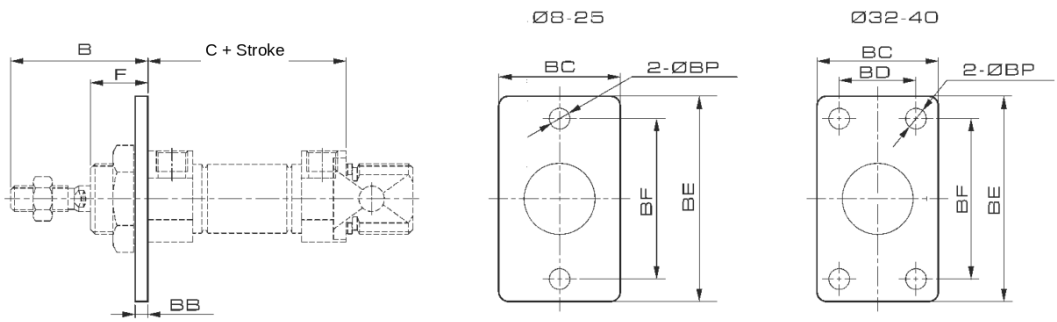
Bore	J	K	L	M	N	O	P	P1	Q	R	S1	S2	T	T1	X	V	W	Y
16	5	M6x1	M16x1.5	6	21	13	21	6	12	16	19	19	10	24	M5x0.8	6	15.5	5
20	6	M8x1.25	M22x1.5	7	23	13	30	8	16	22	27	28.5	14	29	G1/8	8	17.5	6
25	6	M10x1.25	M22x1.5	7	28	11	30	8	16	22	27	28.5	17	29	G1/8	10	17.5	8
32	6	M10x1.25	M27x2	9	26	12	38	10	20	27	35	36.5	17	36	G1/8	12	8	10
40	8	M14x1.5	M33x2	9	28	12	45	10	20	33	42	43.5	22	45	G1/4	16	10	14

LB : 풋 마운트



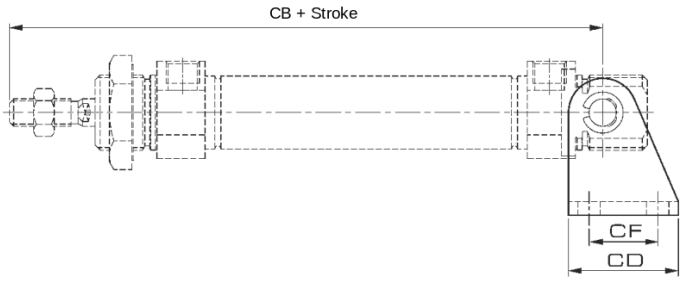
Bore	B	AA	AB	AC	AD	AE	AF	AH	AL	AP	AQ	AT	F
8	28	78	-	68	-	35	25	16	11	4.5	5	3	12
10	28	78	-	68	-	35	25	16	11	4.5	5	3	12
12	38	90	-	78	-	42	32	20	14	5.5	6	4	17
16	37	95	-	83	-	42	32	20	14	5.5	6	4	16
20	43	114	-	98	-	54	40	25	17	6.6	8	5	16
25	50	116	-	100	-	54	40	25	17	6.6	8	5	22
32	48	118	49	104	28	66	52	28	16	7	7	5	18
40	51	132	58	112	30	80	60	33	20	9	10	5	20

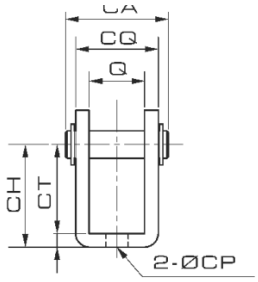
FA : 플랜지 마운트



Bore	B	C	BB	BC	BD	BE	BF	BP	F
8	28	46	3	22	-	40	30	4.5	12
10	28	46	3	22	-	40	30	4.5	12
12	38	50	4	30	-	52	40	5.5	17
16	37	55	4	30	-	52	40	5.5	16
20	43	64	5	40	-	66	50	6.6	16
25	50	66	5	40	-	66	50	6.6	22
32	48	72	5	45	20	80	60	7	18
40	51	72	5	50	30	100	80	9	20

SDB : 바닥면 클래비스





Bore	D	Q	CA	CB	CD	CF	CH	CT	CP	CQ
8	11.3	8.1	17.3	76	20	12.5	24	2.5	4.5	13.1
10	11.3	8.1	17.3	76	20	12.5	24	2.5	4.5	13.1
12	13	12.1	23.3	91	25	15	27	3	5.5	18.1
16	13	12.1	23.3	98	25	15	27	3	5.5	18.1
20	16	16.1	30	115	32	20	30	4	6.5	24.1
25	16	16.1	30	126	32	20	30	4	6.5	24.1
32	19.5	20.1	34.6	135	41	24	35	4	9	28.1
40	26	20.1	36.6	138	52	30	40	5	9	30.1