PLCA/PL2CA

Power Clamping Cylinder 파워 클램핑 실린더



특징(Features)

- 직경 ø40 ~ 80mm
- 클램핑 토크 120 ~ 800 Nm
- 유지 토크 380 ~ 2,500 Nm
- 수평(PLCA), 수직(PL2CA)

주문코드

□ - □ - □ - □ - □

① ② ③ ④ ⑤

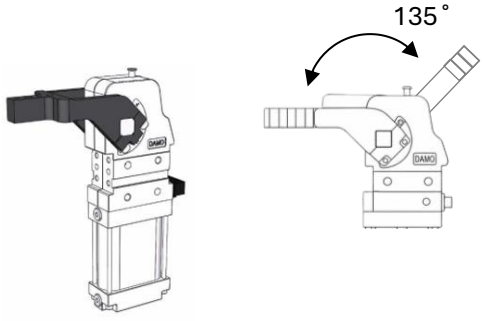
01	실린더 타입
PLCA	수평 클링핑
PL2CA	수직 클림핑
PLCH	수평 클링핑 (수동핸들 포함)
PL2CH	수직 클림핑 (수동핸들 포함)

02	실린더 직경 (mm)
40	40
50	50
63	63
80	80

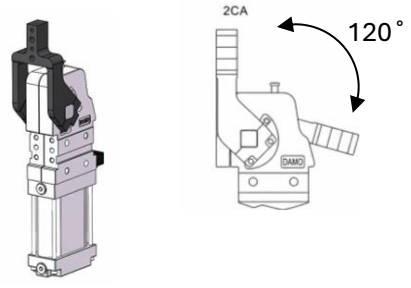
03	클램핑 암 타입
A10	A10/A11/A12 (Size: 40, 50, 63, 80)
A40	A40/A41/A42 (Size: 50, 63, 80)
A50	A50/A51/A52 (Size: 40)
A90	A90/A91/A92 (Size: 50, 63, 80)

04	센서 타입
SN	없음
SE	유도형 센서 (Proximity Sensor)
SP	공압형 센서

05	열림 각도
SN	없음
SE	유도형 센서 (Proximity Sensor)
SP	공압형 센서



PLCA



PL2CA

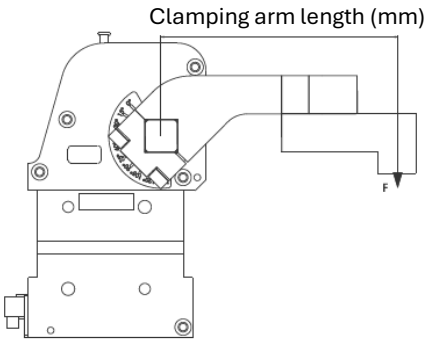
데이터 시트

일반 기술 자료				
실린더 직경	40	50	63	80
공압 연결	G1/8	G1/4	G1/4	G1/4
클램핑 토크 (Nm) , 0.5MPa	120	160	380	800
잠긴 상태에서 유지 토크 (Nm)	380	800	1500	2500
암+툴링의 허용 부하 모멘트 1s	2.2	3.4	6.0	8.0
암+툴링의 허용 부하 모멘트 2s	3.3	6.7	9.0	11.2
작동 압력	0.2 ... 0.8 MPa			
디자인	복동 실린더			
작동 원리	크랭크 링크 일체형 클램프, 기계식 셀프락 구조			
질량 (kg)	2.0	3.9	4.8	14.0

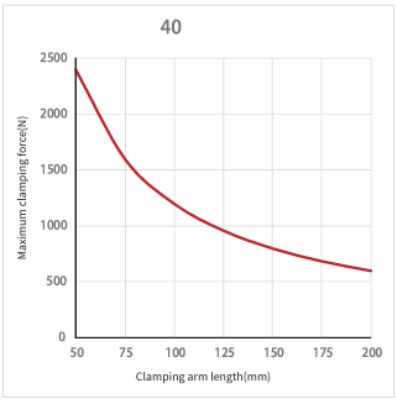
작동 및 환경 조건	
사용매체	압축공기
주위온도 및 사용유체온도	-10 ~ +70°C

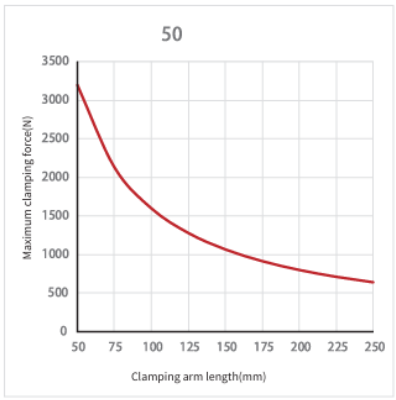
재질	
하우징	알루미늄 합금
피스톤 로드	탄소강 경질 크롬도금
패킹	NBR

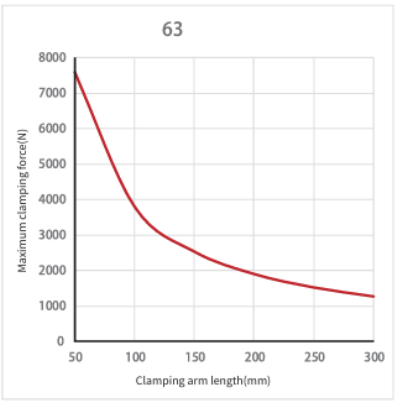
클램핑 암 길이에 따른 최대 클램핑 힘 (F = T/L)

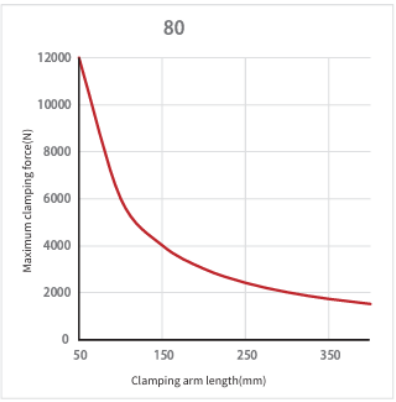


클램핑 암 길이(L)가 길어질수록 암 끝에서 발생하는 최대 클림핑 힘(F)은 약해집니다.

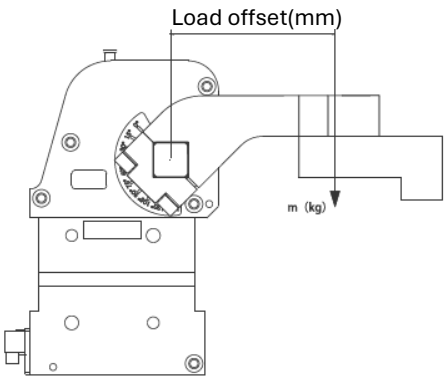




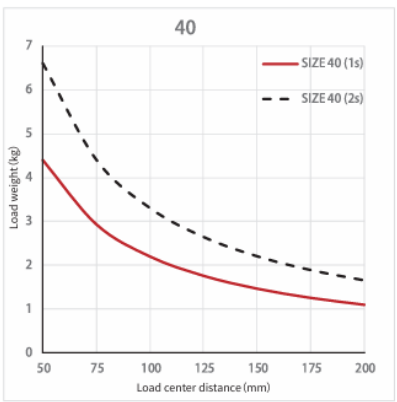


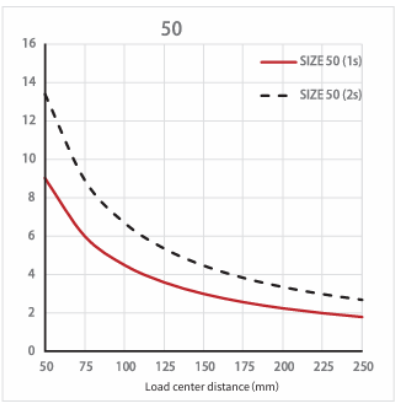


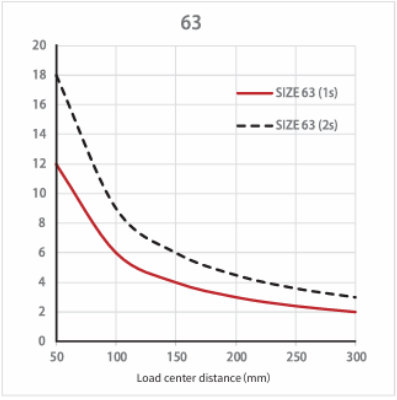
부하 무게중심 거리에 따른 허용 부하 중량(이동 부하 선정 그래프)

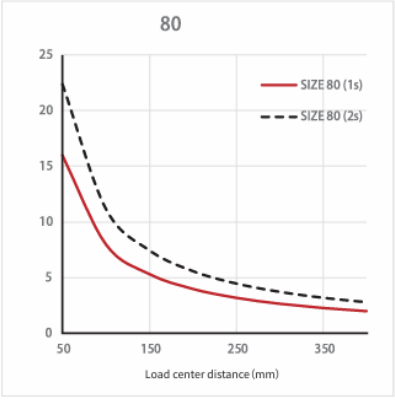


회전축에서 부하의 무게중심까지 거리가 멀어질수록 허용 가능한 부하 중량(m)은 작아집니다.

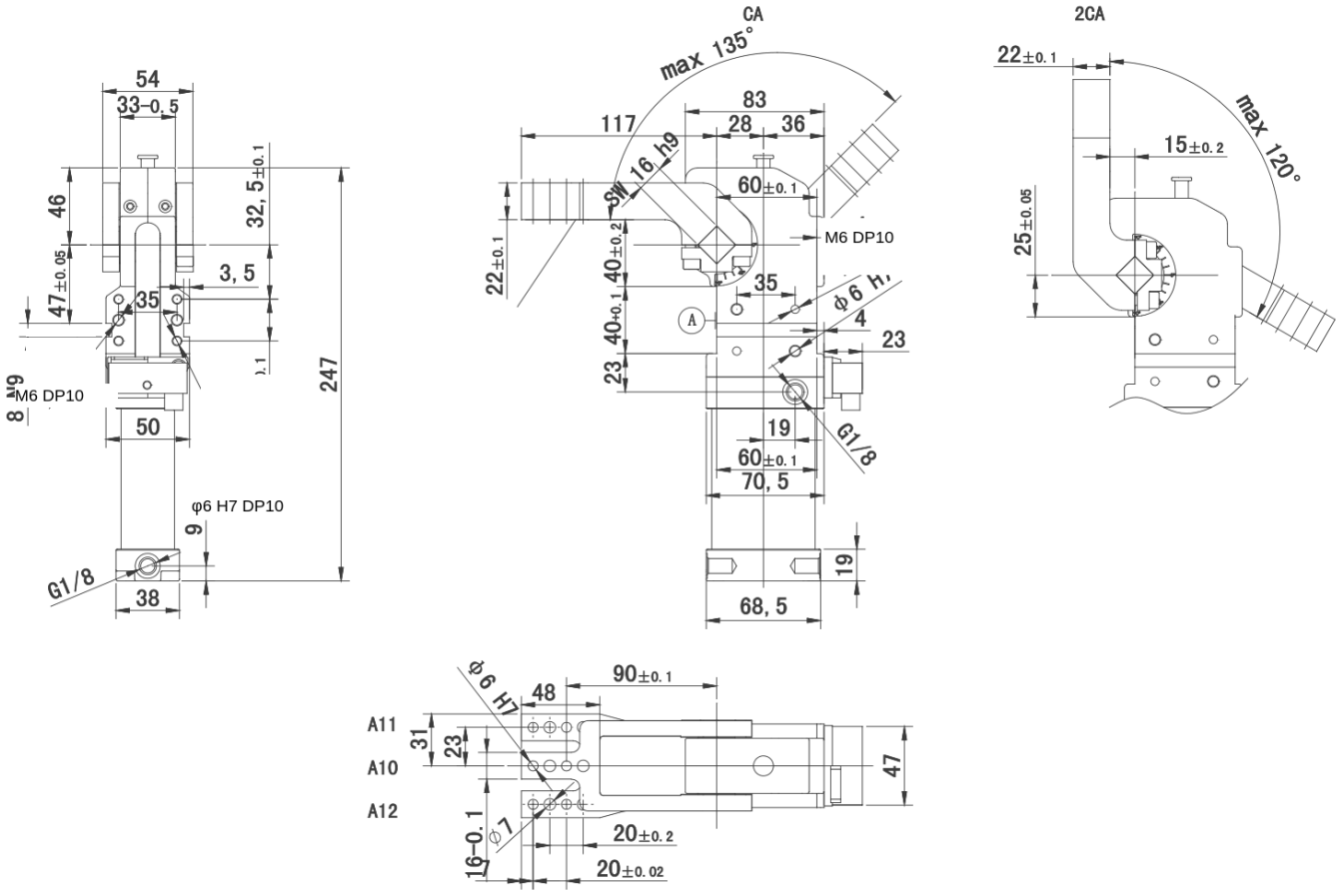




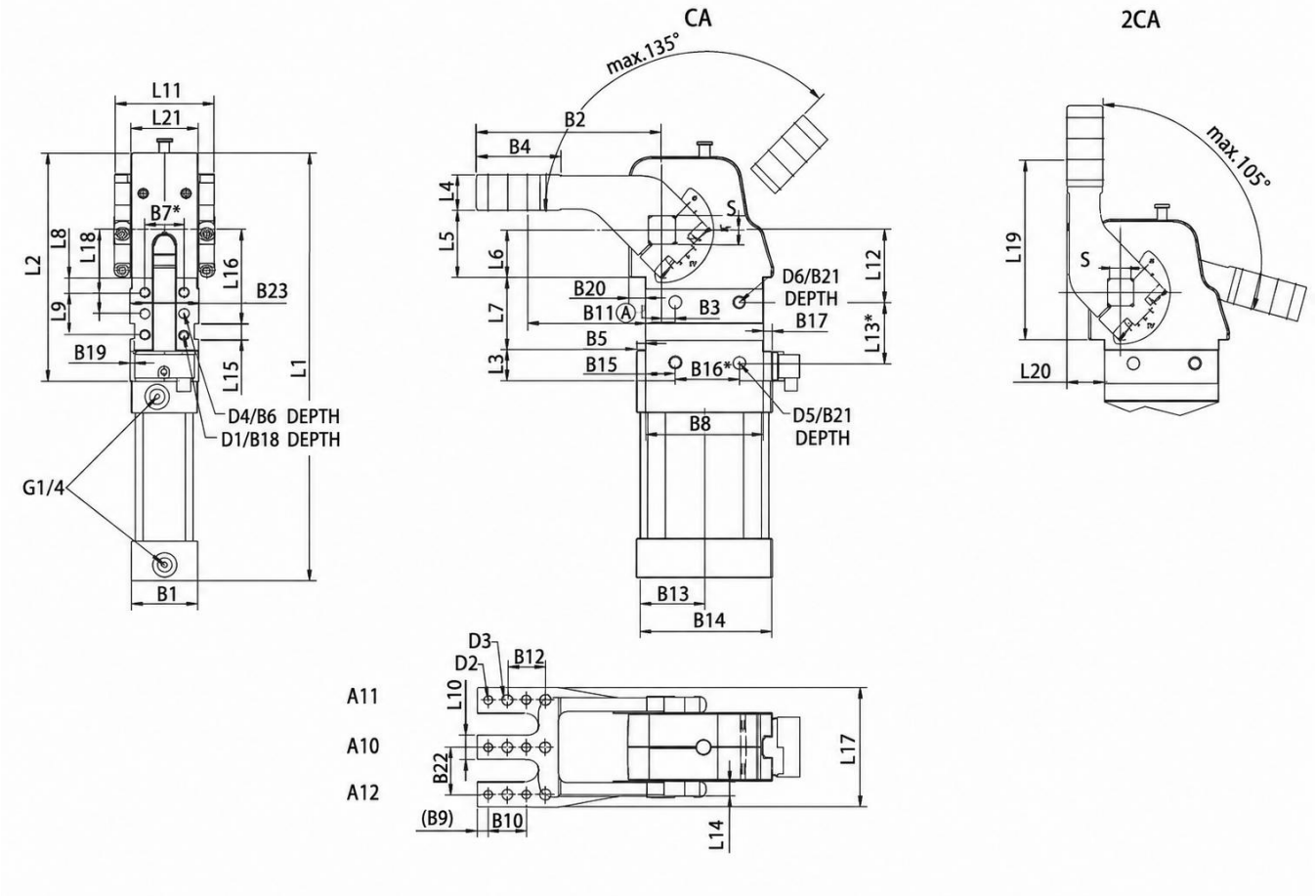




PLCA-40


54
33-0.5
46
32.5±0.1
47±0.05
3.5
35
247
8 M9
M6 DP10
50
φ6 H7 DP10
9
G1/8
38
CA
max 135°
83
117
28
36
SW 16 h9
60±0.1
M6 DP10
22±0.1
40±0.2
40±0.1
35
A
φ6 H
4
23
23
19
G1/8
60±0.1
70.5
19
68.5
2CA
22±0.1
max 120°
15±0.2
25±0.05
φ6 H7
48
90±0.1
A11
A10
A12
31
23
47
16-0.1
φ7
20±0.2
20±0.02

PLCA-50/63/80



Bore	B1	B2	B3 ±0.1	B4	B5	B6	B7*	B8	B9	B10 ±0.05	B11 ±0.1	B12 ±0.1	B13	B14	B15 ±0.1	B16*	B17	B18
50	45	144	10	64	6	10	30	93	9	30	92	30	47	94	23	50	7.5	10
63	52	144	10	64	7.5	10	30	93	9	30	92	30	54	108	23	50	7.5	10
80	62	179	10	64	8	10	50	134	9	30	119	30	69	138	36	70	8	15

Bore	B19	B20	B21	B22 ±0.1	B23 ±0.1	D1	D2 h7	D3	D4 h7	D5 h7	D6	L1	L2	L3	L4 ±0.1	L5 ±0.2	L6 ±0.05	L7 ±0.1
50	3.5	9.5	10	34	48	M8	6	9	8	10	M10	312	166	24	28	51.5	36.5	55
63	3.5	12.5	10	37	54	M8	6	9	8	10	M10	325	173	24	28	51.5	36.5	55
80	3.5	20	13	50.5	76	M10	6	9	8	12	M12	490	270	55	35	70	50	80

Bore	L8 ±0.1	L9 ±0.1	L10	L11	L12 ±0.05	L13*	L14 ±0.1	L15 N9	L16 ±0.05	L17	L18 ±0.05	L19 ±0.1	L20 ±0.2	L21	S h9
50	11	32	20	68	55	45	11.5	12	71.5	88	27	141.5	30	45	19
63	11	32	20	78	55	45	13	12	71.5	94	27	141.5	30	52	22
80	15	50	25	108	65	75	17	12	96.5	126	40	190	34	74	30