SM140H

SAMICK HYDRAULIC CYLINDER

제철용 강력 실린더

삼익유공압주식회사
SAMICK HYDRAULICS & PNEUMATICS CO., LTD.

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SM140H

내경 φ40~φ250까지의 제철기계또는
중기계류에 장착할, 열악한 환경에
사용할 목적으로 설계된 유압실린더

*서어지압력,진동,충격에 안전한 강력실린더.
*가공정도,표면처리,패킹재질등 각부가 최적의 설계되어진 고성능 유압실린더.
*특수용도에 맞춘 고도의 기술설계
*일본유압공업회 JOHS-110 준수

실린더 사양

구 분		SM140H					
실린더내경㎜		φ40, φ50, φ63, φ80, φ100, φ125, φ140, φ160, φ180, φ200, φ224, φ250					
최고사용압력		140Kgf/㎠(13.729MPa)					
허용최고압력		230Kgf/㎠(22.555MPa)					
내압력		280Kgf/㎠(27.459MPa)					
최저작동압력		φ40 ~ φ140: 3Kgf/㎠ (0.294MPa) φ160 ~ φ250: 5Kgf/㎠ (0.490MPa)					
최고사용속도		500㎜/sec					
최저사용속도		실린더 내경: φ40 ~ φ140 : 10㎜/sec 실린더 내경: φ160 ~ φ250 : 20㎜/sec					
사용온도범위		-10℃ ~ +80℃ (이외의 범위는 별도 상담을 바랍니다)					
쿠션방식		METAL접합식					
도 장 색		연록색					
사용 작동유		일반광물성 작동유 (이외의 작동유는 별도 상담을 바랍니다)					
나사 공차		KS2급					
스트로크길이의 허용차		100㎜이하	101~250㎜	251~630㎜	631~1000㎜	1000~1600㎜	1601~3000㎜
		+0.8	+1.0	+1.25	+1.4	+1.6	+1.8
지지 형식		SD형, LA형, FA형, FB형, CA형, TC형					
관련 부품	방진카바	주 문 제 작					
	로드엔드	1산형 , 2산형					
	기 타	로크 너트					

주) 1. 최대사용압력은 연속사용하는 압력의 최대치임.
2. 로드의 좌굴은 별도로 계산하여주십시오.
3. 부하관성력에 의해 실린더내에 발생하는 충격압력은 허용내압력보다 작게하여 주십시오.

수압면적표

내 경㎜		φ40		φ50		φ63		φ80		φ100		φ125		φ140		φ160		φ180		φ200		φ224		φ250	
로드 형식		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
로드 경㎜(φ)		28	28.4	35.3	28	45	35.6	56	45	71	56	90	71	100	80	112	90	125	100	140	112	160	125	160	140
수압면적 ㎠	HEAD측	12.5	12.5	19.6	19.6	31.1	31.1	50.2	50.2	78.5	78.5	122.	122.	153	153	201	201	254	254	314	314	394	394	491	491
	ROD 측	6.4	6.6	9.9	13.6	15.3	21.3	25.6	34.4	39	53.6	59.1	83.1	75.3	101	102	137	132	176	160	215	193	271	236	337

표준스트로크범위

TC형이외의 지지형식

단위: ㎜

실린더내경	φ40~φ63	φ80~φ160	φ180~φ250
스트로크범위	0 ~ 2,000	51 ~ 2,000	101 ~ 2,000

TC형

단위: ㎜

실린더내경	φ40~φ80	φ100, φ125	φ140~φ200	φ180~φ250
스트로크범위	101~2,000	151~2,000	201~2,000	251~2,500

쿠션스트로크

실린더내경	쿠션스트로크	실린더내경	쿠션스트로크
φ40~φ63	20	φ180~φ224	35
φ80~φ160	25	φ250	30

작동유와 패킹재질의 적합성

패킹 재질	상용 작동유				
	일반광물성작동유	물-글리콜작동유	인산에스테르계	W / O 작동유	O / W 작동유
우레탄	○	○	×	△	△
니트릴고무	○	○	×	○	○
불소수지	○	×	○	○	○

쿠션기구제작범위

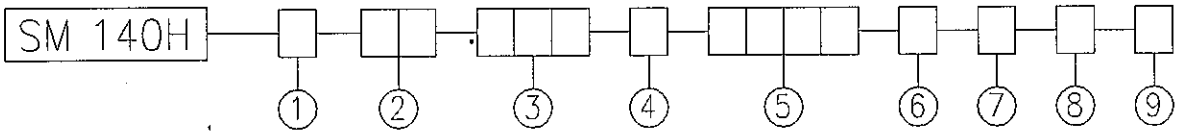
로드계열 / 튜브경	로드경A형		로드경B형	
	로드측	헤드측	로드측	헤드측
φ40	×	○	×	○
φ50	×	○	○	
φ63	×	○	○	
φ80	○		○	
φ100	○		○	
φ125	○		○	
φ140	○		○	
φ160	○		○	
φ180	○		○	
φ200	○		○	
φ224	○		○	
φ250	○		○	

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SM140H SERIES

MILL TYPE HYDRAULIC CYLINDER

실린더 주문방법



① 패킹재질

1	니트릴 고무
2	우레탄 고무*표준규격품
3	불소 고무

② 지지부형식

LA	축직각방향 푸트형
FA	로드측 플랜지형
FB	헤드측 플랜지형
CA	일산형 크레비스형
TC	중간 트러니언형

③ 실린더 내경 ④ 로드 계열

튜 브		로 드	
호칭경	튜브내경	A계열	B계열
040	φ40	φ28	φ22.4
050	φ50	φ35.5	φ28
063	φ63	φ45	φ35.5
080	φ80	φ56	φ45
100	φ100	φ71	φ56
125	φ125	φ90	φ71
140	φ140	φ100	φ80
160	φ160	φ112	φ90
180	φ180	φ125	φ100
200	φ200	φ140	φ112
224	φ224	φ160	φ125
250	φ250	φ180	φ140

⑤ 스트로크

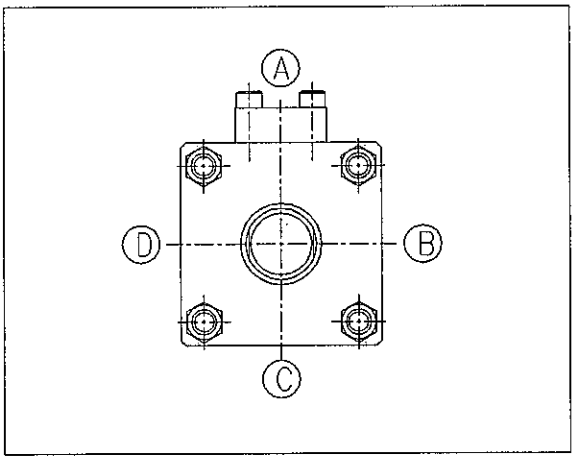
주) 사양에 명시된 스트로크한계을 참조하십시오.

⑥ 쿠션유무

N	쿠션없음
R	로드측 쿠션
H	헤드측 쿠션
B	양쪽 쿠션

⑦ 포트위치:표준위치 A

⑧ 쿠션벨브위치



쿠션벨브의 표준위치는 B입니다
위치변경이 필요한 경우 A, B, C, D 로
표시하여 주십시오.

⑨ 벨로우즈 부착유무

벨로우즈 부착시에는 로드길이(W 치수)는
별도로 사양표에 따라 계산하여주십시오

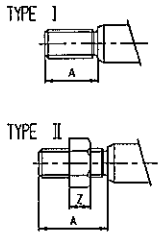
* 표준이외의 사양은 당사에 별도로 문의하십시오.
지지부형식이 표준이 아닐 경우 당사에 문의하십시오.

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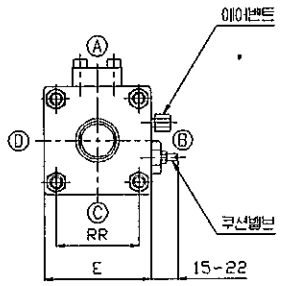
SM140H SERIES

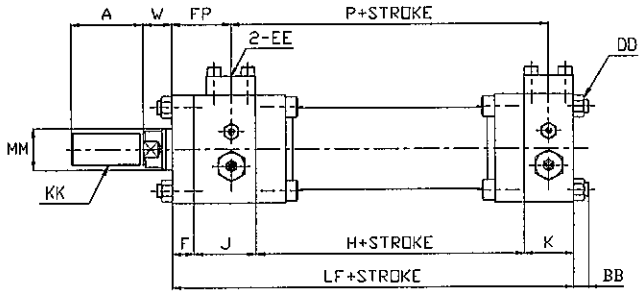
MILL TYPE
HYDRAULIC CYLINDER

SD형 외형치수표



DETAIL OF ROD END

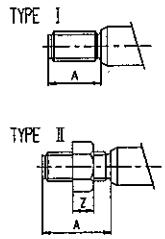




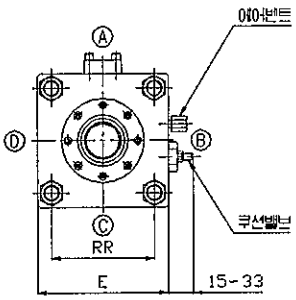
아래의 경우 쿠션기구 설치가 불가하오니 당사와 협의하여 주십시오

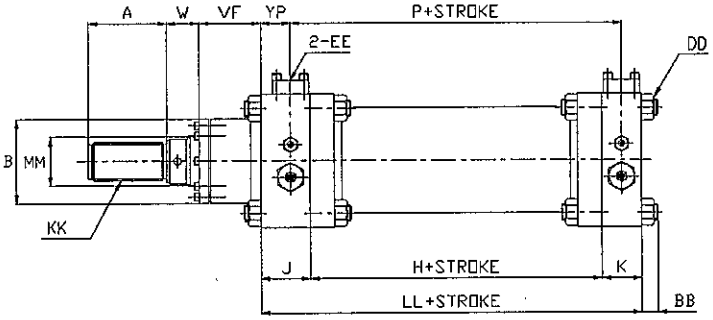
A ROD TYPE	φ40, φ50, φ63 ROD측
B ROD TYPE	φ40 ROD측

SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	Z	B TYPE ROD A I	A II	KK	MM	Z	EE	W	FP	P	E	RR	F	J	H	K	LF	DD	BB
φ40	35	55	M24 ×1.5	φ28	19	30	45	M20 ×1.5	φ22.4	16	SSA15	29	47	118	□80	□60	18	56	64	54	192	M10 ×1.5	11
φ50	45	65	M30 ×1.5	φ35.5	24	35	55	M24 ×1.5	φ28	19	SSA15	29	47	122	□90	□68	18	56	68	54	196	M12 ×1.75	13
φ63	60	85	M39 ×1.5	φ45	31	45	65	M30 ×1.5	φ35.5	24	SSA15	40	61	141	□110	□80	20	68	87	54	229	M14 ×2	14
φ80	75	105	M48 ×1.5	φ56	38	60	85	M39 ×1.5	φ45	31	SSA20	33	70	155	□127	□98	26	73	97	58	254	M16 ×2	16
φ100	95	140	M64 ×2	φ71	51	75	105	M48 ×1.5	φ56	38	SSA20	39	87	154	□154	□120	31	85	96	58	270	M20 ×2.5	19
φ125	120	175	M80 ×2	φ90	64	95	140	M64 ×2	φ71	51	SSA25	44	105	174	□188	□144	36	103	106	68	313	M24 ×2	22
φ140	140	210	M95 ×2	φ100	76	110	160	M72 ×2	φ80	58	SSA25	49	105	184	□212	□162	36	103	116	68	323	M27 ×2	26



DETAIL OF ROD END

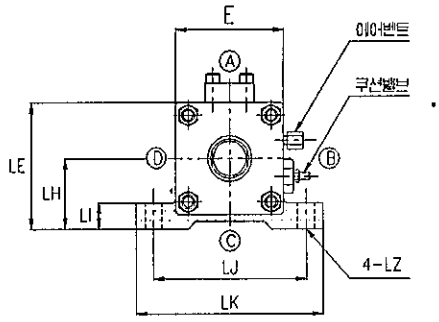


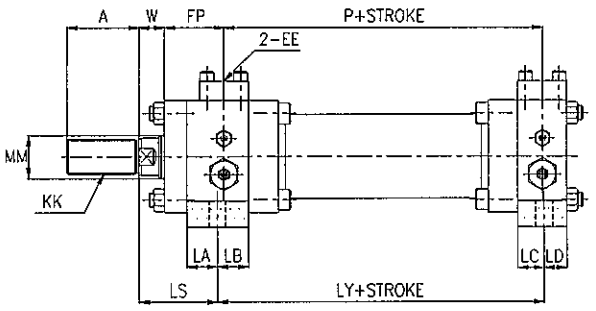


SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	Z	B TYPE ROD A I	A II	KK	MM	Z	EE	W	VF	YP	P	B A ROD	B B ROD	E	RR	J	H	K	LL	DD
φ160	150	220	M100 ×2	φ112	80	120	175	M80 ×2	φ90	64	SSA25	35	92	38	204	φ191	φ162	□238	□184	74	132	72	278	M30 ×2
φ180	180	265	M120 ×2	φ125	96	140	210	M95 ×2	φ100	76	SSA32	40	92	43	224	φ208	φ172	□272	□214	84	142	82	308	M33 ×2
φ200	195	285	M130 ×2	φ140	104	150	220	M100 ×2	φ112	80	SSA40	38	102	51	254	φ229	φ191	□298	□232	102	152	102	356	M36 ×2
φ224	225	330	M150 ×2	φ160	120	180	265	M120 ×2	φ125	96	SSA40	42	112	51	264	φ253	φ208	□328	□256	102	162	102	366	M39 ×2
φ250	255	375	M170 ×3	φ180	136	190	285	M130 ×2	φ140	104	SSA50	48	127	60	274	φ280	φ229	□362	□286	111	172	102	385	M42 ×2

MILL TYPE
HYDRAULIC CYLINDER

LA형 외형치수표

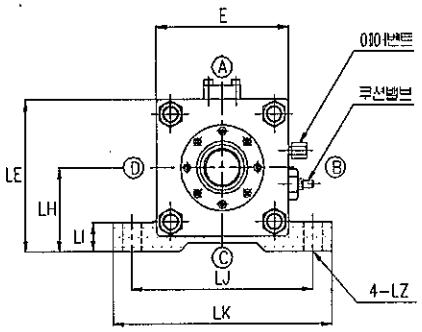


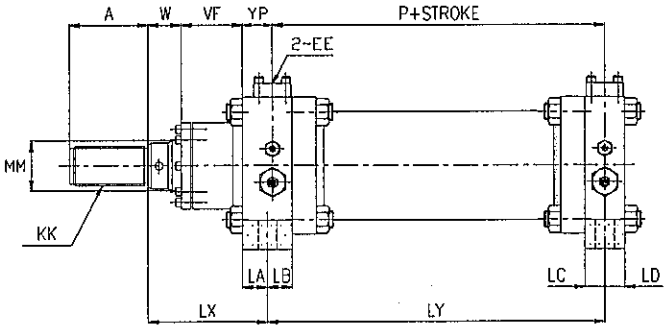


아래의 경우 쿠션기구 설치가 불가하므로 당사와 협의하여 주십시오.

A ROD TYPE	φ40, φ50, φ63 ROD측
B ROD TYPE	φ40 ROD측

SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	B TYPE ROD A I	A II	KK	MM	EE	E	FP	W	P	LA	LB	LC	LD	LE	LH	LI	LJ	LK	LX	LY	LZ
φ40	35	55	M24 ×1.5	φ28	30	45	M20 ×1.5	φ22.4	SSA15	80	47	29	118	28	28	28	26	100	60	20	125	155	75	120	φ14
φ50	45	65	M30 ×1.5	φ35.5	35	55	M24 ×1.5	φ28	SSA15	90	47	29	122	28	28	24	30	110	65	20	140	175	75	120	φ16
φ63	60	85	M39 ×1.5	φ45	45	65	M30 ×1.5	φ35.5	SSA15	110	61	40	141	35	33	30	24	125	70	25	155	190	95	150	φ18
φ80	75	105	M48 ×1.5	φ56	60	85	M39 ×1.5	φ45	SSA20	127	70	33	155	36	37	31	27	143.5	80	30	180	220	95	165	φ20
φ100	95	140	M64 ×2	φ71	75	105	M48 ×1.5	φ56	SSA20	154	87	39	154	45	40	29	29	172	95	35	220	265	115	165	φ24
φ125	120	175	M80 ×2	φ90	95	140	M64 ×2	φ71	SSA25	188	105	44	174	50	53	36	32	209	115	40	275	330	130	195	φ30
φ140	140	210	M95 ×2	φ100	110	160	M72 ×2	φ80	SSA25	212	105	49	184	50	53	31	37	231	125	45	305	365	135	200	φ33

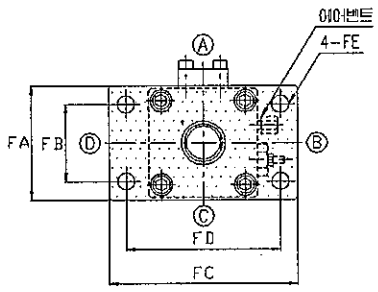


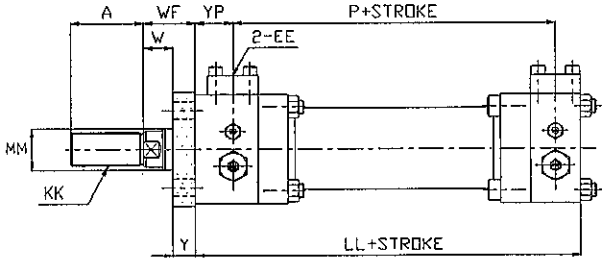


SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	B TYPE ROD A I	A II	KK	MM	EE	E	P	W	VF	YP	LA	LB	LC	LD	LE	LH	LI	LJ	LK	LX	LY	LZ
φ160	150	220	M100 ×2	φ112	120	175	M80 ×2	φ90	SSA25	238	204	35	92	38	38	36	38	34	264	145	55	340	405	165	206	φ36
φ180	180	265	M120 ×2	φ125	140	210	M95 ×2	φ100	SSA32	272	224	40	92	43	43	41	42	40	296	160	60	375	445	175	225	φ39
φ200	195	285	M130 ×2	φ140	150	220	M100 ×2	φ112	SSA40	298	254	38	102	51	55	47	51	51	324	175	65	410	485	195	250	φ42
φ224	225	330	M150 ×2	φ160	180	265	M120 ×2	φ125	SSA40	328	264	42	112	51	51	51	52	50	359	195	70	460	545	205	265	φ48
φ250	255	375	M170 ×3	φ180	190	285	M130 ×2	φ140	SSA50	362	274	48	127	60	55	56	54	48	396	215	75	500	590	230	282	φ5

MILL TYPE
HYDRAULIC CYLINDER

FA형 외형치수표

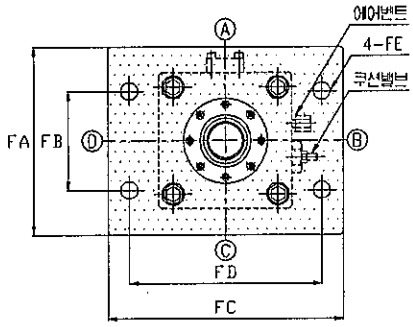


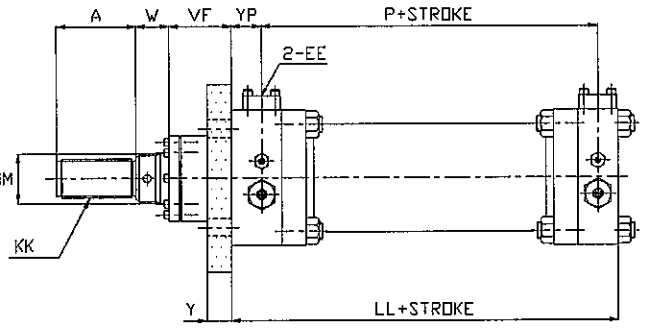


아래의 경우 쿠션기구 설치가 불가하므로 당사와 협의하여주십시오.

A TYPE ROD	φ40, φ50, φ63 ROD측
B TYPE ROD	φ40 ROD측

SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	B TYPE ROD A I	A II	KK	MM	EE	W	WF	YP	P	Y	LL	FA	FB	FC	FD	FE
φ40	35	55	M24 ×1.5	φ28	30	45	M20 ×1.5	φ22.4	SSA15	32	47	29	118	15	174	85	55	155	125	φ14
φ50	45	65	M30 ×1.5	φ35.5	35	55	M24 ×1.5	φ28	SSA15	27	47	29	122	20	178	95	60	175	140	φ16
φ63	60	85	M39 ×1.5	φ45	45	65	M30 ×1.5	φ35.5	SSA15	35	60	41	141	25	209	110	75	190	155	φ18
φ80	75	105	M48 ×1.5	φ56	60	85	M39 ×1.5	φ45	SSA20	34	59	44	155	25	228	130	90	220	180	φ20
φ100	95	140	M64 ×2	φ71	75	105	M48 ×1.5	φ56	SSA20	40	70	56	154	30	239	160	115	265	220	φ24
φ125	120	175	M80 ×2	φ90	95	140	M64 ×2	φ71	SSA25	45	80	69	174	35	277	200	145	330	275	φ30
φ140	140	210	M95 ×2	φ100	110	160	M72 ×2	φ80	SSA25	45	85	69	184	40	287	220	160	365	305	φ33





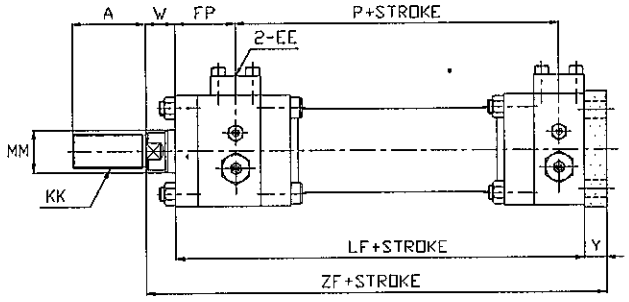
SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	B TYPE ROD A I	A II	KK	MM	EE	W	VF	YP	P	Y	LL	FA	FB	FC	FD	FE
φ160	150	220	M100 ×2	φ112	120	175	M80 ×2	φ90	SSA25	35	92	38	204	45	278	330	185	405	340	φ36
φ180	180	265	M120 ×2	φ125	140	210	M95 ×2	φ100	SSA32	40	92	43	224	50	308	340	210	445	375	φ39
φ200	195	285	M130 ×2	φ140	150	220	M100 ×2	φ112	SSA40	38	102	51	254	55	356	380	230	485	410	φ42
φ224	225	330	M150 ×2	φ160	180	265	M120 ×2	φ125	SSA40	42	112	51	264	60	366	430	255	545	460	φ48
φ250	255	375	M170 ×3	φ180	190	285	M130 ×2	φ140	SSA50	48	127	60	274	65	385	465	285	590	500	φ52

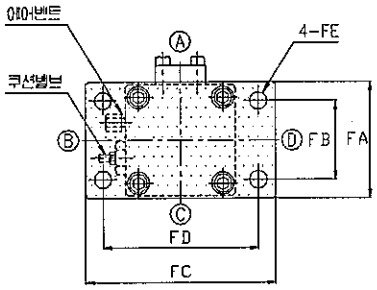
삼익유공압주식회사
SAMICK HYDRAULICS & PNEUMATICS CO., LTD.

SM140H SERIES

MILL TYPE
HYDRAULIC CYLINDER

FB형 외형치수표

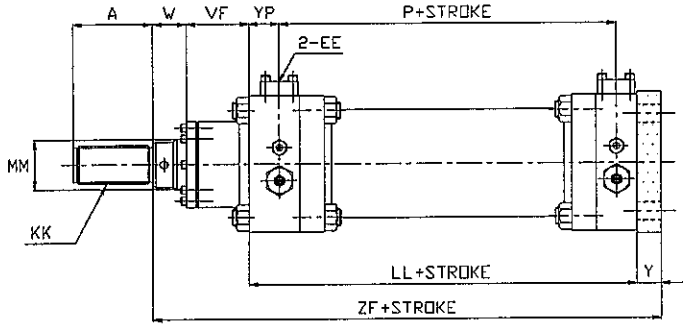


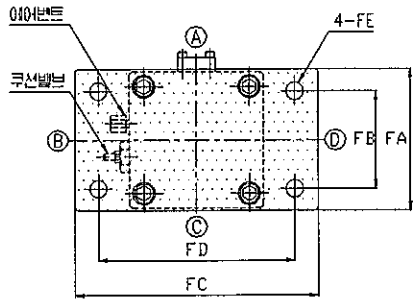


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A TYPE ROD	φ40, φ50, φ63 ROD측
B TYPE ROD	φ40 ROD측

SYMBOL / BORE	A TYPE ROD A I	A TYPE ROD A II	A TYPE ROD KK	A TYPE ROD MM	B TYPE ROD A I	B TYPE ROD A II	B TYPE ROD KK	B TYPE ROD MM	EE	W	FP	P	Y	LF	ZF	FA	FB	FC	FD	FE
φ40	35	55	M24 ×1.5	φ28	30	45	M20 ×1.5	φ22.4	SSA15	26	47	118	15	192	233	85	55	155	125	φ14
φ50	45	65	M30 ×1.5	φ35.5	35	55	M24 ×1.5	φ28	SSA15	27	47	122	20	196	243	95	60	175	140	φ16
φ63	60	85	M39 ×1.5	φ45	45	65	M30 ×1.5	φ35.5	SSA15	45	61	141	25	229	299	110	75	190	155	φ18
φ80	75	105	M48 ×1.5	φ56	60	85	M39 ×1.5	φ45	SSA20	34	70	155	25	254	313	130	90	220	180	φ20
φ100	95	140	M64 ×2	φ71	75	105	M48 ×1.5	φ56	SSA20	39	87	154	30	270	339	160	115	265	220	φ24
φ125	120	175	M80 ×2	φ90	95	140	M64 ×2	φ71	SSA25	44	105	174	35	313	392	200	145	330	275	φ30
φ140	140	210	M95 ×2	φ100	110	160	M72 ×2	φ80	SSA25	49	105	184	40	323	412	220	160	365	305	φ33

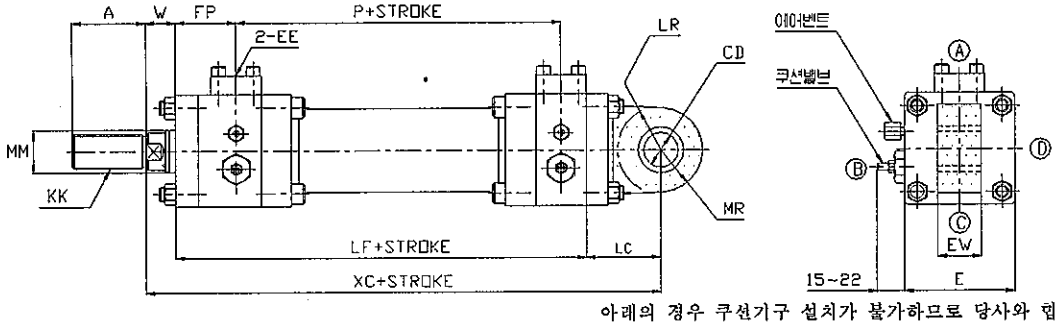




SYMBOL / BORE	A TYPE ROD A I	A TYPE ROD A II	A TYPE ROD KK	A TYPE ROD MM	B TYPE ROD A I	B TYPE ROD A II	B TYPE ROD KK	B TYPE ROD MM	EE	W	VF	YP	P	Y	LL	ZF	FA	FB	FC	FD	FE
φ160	150	220	M100 ×2	φ112	120	175	M80 ×2	φ90	SSA25	41	92	38	204	45	278	456	250	185	405	340	φ36
φ180	180	265	M120 ×2	φ125	140	210	M95 ×2	φ100	SSA32	46	92	43	224	50	308	496	280	210	445	375	φ39
φ200	195	285	M130 ×2	φ140	150	220	M100 ×2	φ112	SSA40	42	102	51	254	55	356	555	305	230	485	410	φ42
φ224	225	330	M150 ×2	φ160	180	265	M120 ×2	φ125	SSA40	46	112	51	264	60	366	584	345	255	545	460	φ48
φ250	255	375	M170 ×3	φ180	190	285	M130 ×2	φ140	SSA50	61	127	60	274	65	385	638	380	285	590	500	φ5

MILL TYPE
HYDRAULIC CYLINDER

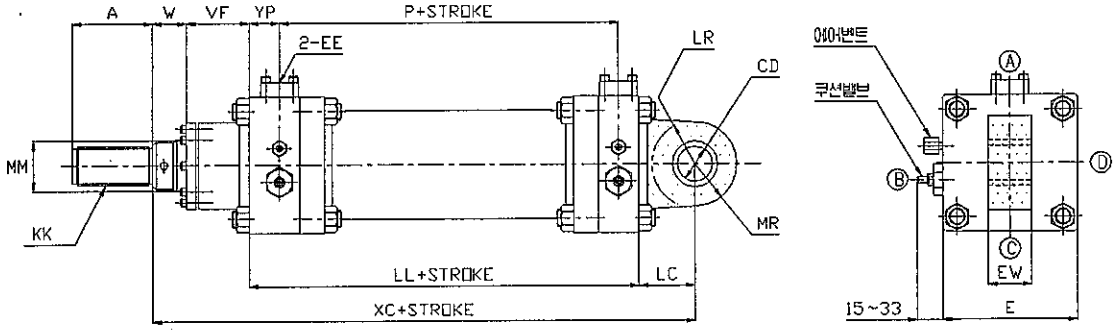
CA형 외형치수표



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A ROD TYPE	φ40, φ50, φ63 ROD측
B ROD TYPE	φ40 ROD측

SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	B TYPE ROD A I	A II	KK	MM	EE	E	EW	W	FP	P	LC	LF	XC	LR	MR	CD
φ40	35	55	M24 ×1.5	φ28	30	45	M20 ×1.5	φ22.4	SSA15	□80	31.5 $^{-0.1}_{-0.4}$	29	47	118	56	192	277	R30	R24	φ20H10
φ50	45	65	M30 ×1.5	φ35.5	35	55	M24 ×1.5	φ28	SSA15	□90	35.5 $^{-0.1}_{-0.4}$	29	47	122	66	196	291	R40	R30	φ25H10
φ63	60	85	M39 ×1.5	φ45	45	65	M30 ×1.5	φ35.5	SSA15	□110	40 $^{-0.1}_{-0.4}$	40	61	141	72	229	341	R43	R38	φ31.5H10
φ80	75	105	M48 ×1.5	φ56	60	85	M39 ×1.5	φ45	SSA20	□127	50 $^{-0.1}_{-0.4}$	33	70	155	86	254	373	R50	R48	φ40H10
φ100	95	140	M64 ×2	φ71	75	105	M48 ×1.5	φ56	SSA20	□154	63 $^{-0.1}_{-0.4}$	39	87	154	105	270	414	R65	R60	φ50H10
φ125	120	175	M80 ×2	φ90	95	140	M64 ×2	φ71	SSA25	□188	80 $^{-0.1}_{-0.6}$	44	105	174	129	313	486	R82	R75	φ63H10
φ140	140	210	M95 ×2	φ100	110	160	M72 ×2	φ80	SSA25	□212	80 $^{-0.1}_{-0.6}$	49	105	184	147	323	519	R93	R85	φ71H10



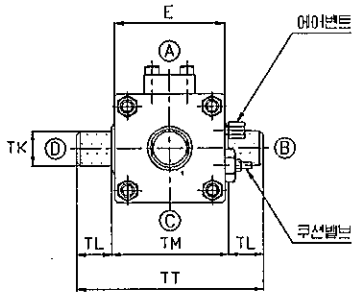
SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	B TYPE ROD A I	A II	KK	MM	EE	E	EW	W	VF	YP	P	LC	LL	XC	LR	MR	CD
φ160	150	220	M100 ×2	φ112	120	175	M80 ×2	φ90	SSA25	□238	100 $^{-0.1}_{-0.6}$	35	92	38	204	162	278	567	R105	R96	φ80H10
φ180	180	265	M120 ×2	φ125	140	210	M95 ×2	φ100	SSA32	□272	125 $^{-0.1}_{-0.6}$	40	92	43	224	183	308	623	R120	R108	φ90H10
φ200	195	285	M130 ×2	φ140	150	220	M100 ×2	φ112	SSA40	□298	125 $^{-0.1}_{-0.6}$	38	102	51	254	189	356	685	R125	R120	φ100H10
φ224	225	330	M150 ×2	φ160	180	265	M120 ×2	φ125	SSA40	□328	140 $^{-0.1}_{-0.6}$	42	112	51	264	214	366	734	R145	R135	φ112H10
φ250	255	375	M170 ×3	φ180	190	285	M130 ×2	φ140	SSA50	□362	160 $^{-0.1}_{-0.6}$	48	127	60	274	240	385	800	R160	R150	φ125H10

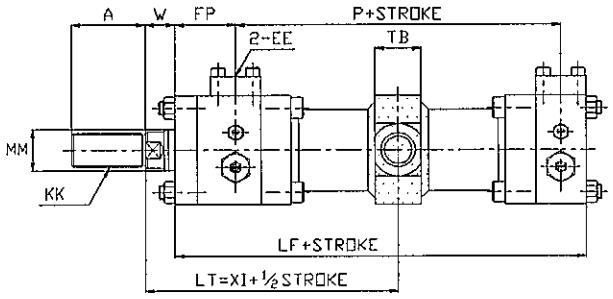
삼익유공압주식회사
SAMICK HYDRAULICS & PNEUMATICS CO., LTD.

SM140H SERIES

MILL TYPE
HYDRAULIC CYLINDER

TC형 외형치수표

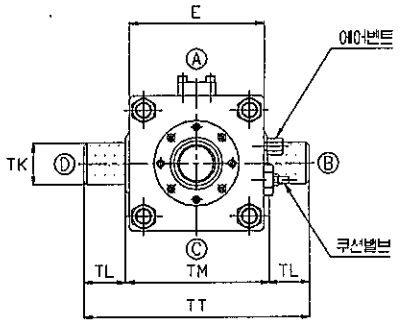


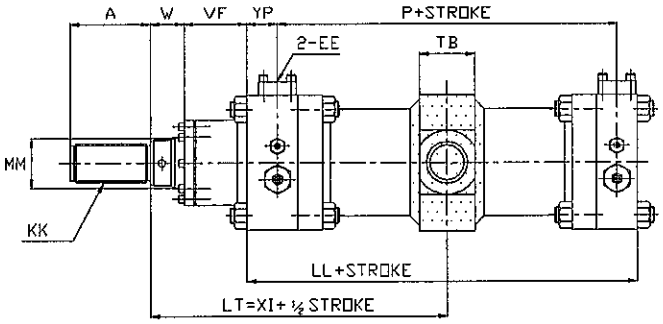


아래의 경우 쿠션기구 설치가 불가하므로 당사와 협의하여 주십시오.

A ROD TYPE	φ40, φ50, φ63 ROD측
B ROD TYPE	φ40 ROD측

SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	B TYPE ROD A I	A II	KK	MM	EE	E	W	FP	P	LF	LT	TB	TK	TL	TM	TT
φ40	35	55	M24 ×1.5	φ28	30	45	M20 ×1.5	φ22.4	SSA15	□80	29	47	118	192	166	33	φ25e8	25	90 -0.1 -0.5	140
φ50	45	65	M30 ×1.5	φ35.5	35	55	M24 ×1.5	φ28	SSA15	□90	29	47	122	196	169	33	φ25e8	25	100 -0.1 -0.5	150
φ63	60	85	M39 ×1.5	φ45	45	65	M30 ×1.5	φ35.5	SSA15	□110	40	61	141	229	202	43	φ31.5e8	31.	115 -0.1 -0.5	178
φ80	75	105	M48 ×1.5	φ56	60	85	M39 ×1.5	φ45	SSA20	□127	33	70	155	254	227	53	φ40e8	40	135 -0.1 -0.5	215
φ100	95	140	M64 ×2	φ71	75	105	M48 ×1.5	φ56	SSA20	□154	39	87	154	270	260	63	φ50e8	50	165 -0.1 -0.5	265
φ125	120	175	M80 ×2	φ90	95	140	M64 ×2	φ71	SSA25	□188	44	105	174	313	300	78	φ63e8	63	205 -0.1 -0.5	331
φ140	140	210	M95 ×2	φ100	110	160	M72 ×2	φ80	SSA25	□212	49	105	184	323	315	88	φ71e8	71	225 -0.1 -0.5	367





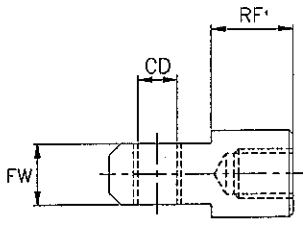
SYMBOL / BORE	A TYPE ROD A I	A II	KK	MM	B TYPE ROD A I	A II	KK	MM	EE	E	W	VF	YP	P	LL	LT	TB	TK	TL	TM	TT
φ160	150	220	M100 ×2	φ112	120	175	M80 ×2	φ90	SSA25	□238	35	92	38	204	278	338	98	φ80e8	80	255 -0.1 -0.5	415
φ180	180	265	M120 ×2	φ125	140	210	M95 ×2	φ100	SSA32	□272	40	92	43	224	308	363	108	φ90e8	90	285 -0.1 -0.8	465
φ200	195	285	M130 ×2	φ140	150	220	M100 ×2	φ112	SSA40	□298	38	102	51	254	356	404	118	φ	100	310 -0.1 -0.8	510
φ224	225	330	M150 ×2	φ160	180	265	M120 ×2	φ125	SSA40	□328	42	112	51	264	366	433	137	φ	112	350 -0.1 -0.8	574
φ250	255	375	M170 ×3	φ180	190	285	M130 ×2	φ140	SSA50	□362	48	127	60	274	385	478	147	φ	125	385 -0.1 -0.8	635

MILL TYPE
HYDRAULIC CYLINDER

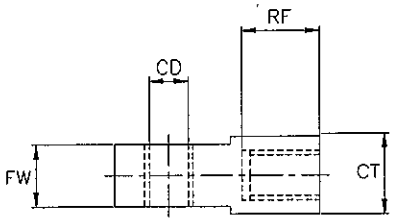
ROD END 외형 치수표

1산형

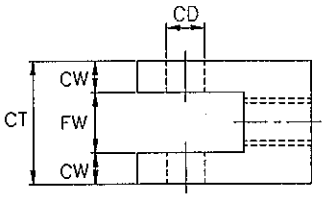
ø40~ø100

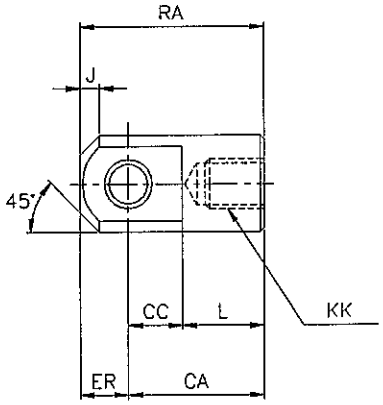


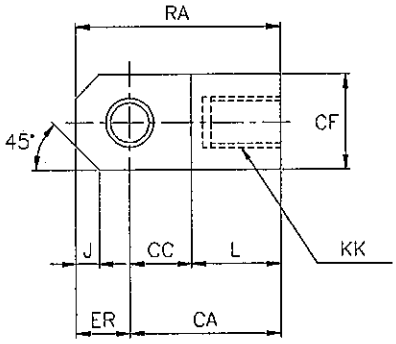
ø125~ø250

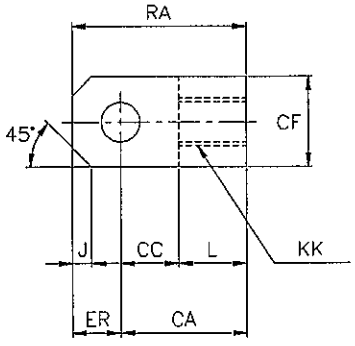


2산형









치수표 / 1산형

기호 / 내경	CA		CC	CD	CF	CT		ER	FW	J	KK		L		RA		RF	
	로드 A형	로드 B형				로드 A형	로드 B형				로드 A형	로드 B형	로드 A형	로드 B형	로드 A형	로드 B형	로드 A형	로드 B형
ø40	70	70	28	ø20 H10	ø49	–	–	25	31.5 $^{-0.1}_{-0.4}$	10	M24x1.5	M20x1.5	42	42	95	95	37	32
ø50	95	95	35	ø25 H10	ø49	–	–	30	35.5 $^{-0.1}_{-0.4}$	15	M30x1.5	M24x1.5	60	60	125	125	47	37
ø63	115	115	43	ø31.5 H10	ø62	–	–	35	40 $^{-0.1}_{-0.4}$	15	M39x1.5	M30x1.5	72	72	150	150	62	47
ø80	145	145	55	ø40 H10	ø79	–	–	40	50 $^{-0.1}_{-0.4}$	20	M48x1.5	M39x1.5	90	90	185	185	77	62
ø100	180	180	65	ø50 H10	ø100	–	–	50	63 $^{-0.1}_{-0.6}$	30	M64x2	M48x1.5	115	115	230	230	97	77
ø125	220	195	80	ø63 H10	120	110	90	70	80 $^{-0.1}_{-0.6}$	30	M80x2	M64x2	140	115	290	265	125	100
ø140	255	220	90	ø71 H10	140	130	100	80	80 $^{-0.1}_{-0.6}$	30	M95x2	M72x2	165	130	335	300	145	115
ø160	275	245	100	ø80 H10	160	140	110	90	100 $^{-0.1}_{-0.6}$	40	M100x2	M80x2	175	145	365	335	155	125
ø180	325	285	115	ø90 H10	180	170	130	105	125 $^{-0.1}_{-0.6}$	40	M120x2	M95x2	210	170	430	390	185	145
ø200	355	310	125	ø100 H10	200	180	140	115	125 $^{-0.1}_{-0.6}$	40	M130x2	M100x2	230	185	470	425	200	155
ø224	405	360	140	ø112 H10	220	210	170	125	140 $^{-0.1}_{-0.6}$	50	M150x2	M120x2	265	220	530	485	230	185
ø250	455	395	160	ø125 H10	250	240	180	140	160 $^{-0.1}_{-0.6}$	60	M170x3	M130x2	295	235	595	535	260	200

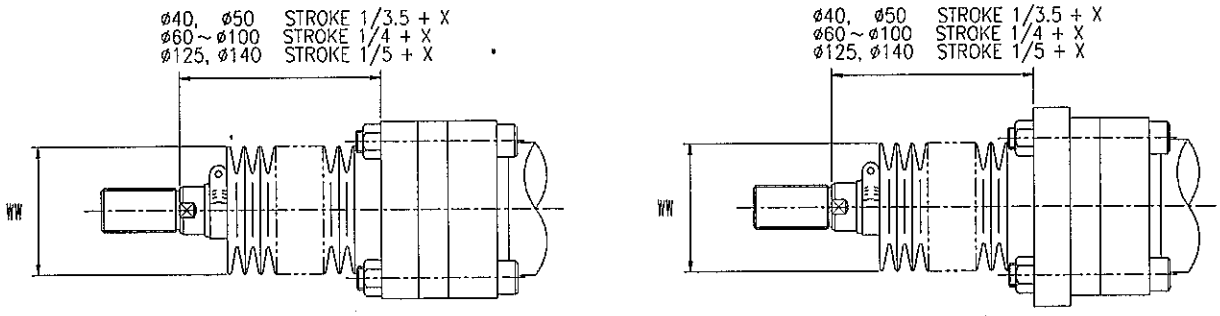
치수표 / 2산형

기호 / 내경	CA		CC	CD	CF	CT	CW	ER	FW	J	KK		L		RA	
	로드 A형	로드 B형									로드 A형	로드 B형	로드 A형	로드 B형	로드 A형	로드 B형
ø40	65	60	30	ø20 H10	40	70	16	25	38 $^{+1.0}_{+0.1}$	8	M24x1.5	M20x1.5	35	30	90	85
ø50	80	70	35	ø25 H10	50	75	17.5	30	40 $^{+1.0}_{+0.1}$	15	M30x1.5	M24x1.5	45	35	110	100
ø63	100	85	40	ø31.5 H10	70	85	20	35	45 $^{+1.0}_{+0.1}$	15	M39x1.5	M30x1.5	60	45	135	120
ø80	125	110	50	ø40 H10	80	105	25	40	55 $^{+2.0}_{+0.1}$	15	M48x1.5	M39x1.5	75	60	165	150
ø100	160	145	65	ø50 H10	100	130	30	50	70 $^{+2.0}_{+0.1}$	20	M64x2	M48x1.5	95	80	210	195
ø125	200	175	80	ø63 H10	130	170	40	65	90 $^{+2.0}_{+0.1}$	25	M80x2	M64x2	120	95	265	240
ø140	230	200	90	ø71 H10	150	170	40	75	90 $^{+2.0}_{+0.1}$	30	M95x2	M72x2	140	110	305	275
ø160	250	220	100	ø80 H10	160	210	50	80	110 $^{+2.0}_{+0.1}$	30	M100x2	M80x2	150	120	330	300
ø180	295	255	115	ø90 H10	180	260	62.5	90	135 $^{+3.0}_{+0.1}$	40	M120x2	M95x2	180	140	385	345
ø200	320	275	125	ø100 H10	200	260	62.5	100	135 $^{+3.0}_{+0.1}$	40	M130x2	M100x2	195	150	420	375
ø224	365	320	140	ø112 H10	230	290	70	115	150 $^{+3.0}_{+0.1}$	50	M150x2	M120x2	225	180	480	435
ø250	415	355	160	ø125 H10	250	330	80	125	170 $^{+4.0}_{+0.1}$	60	M170x3	M130x2	255	195	540	480

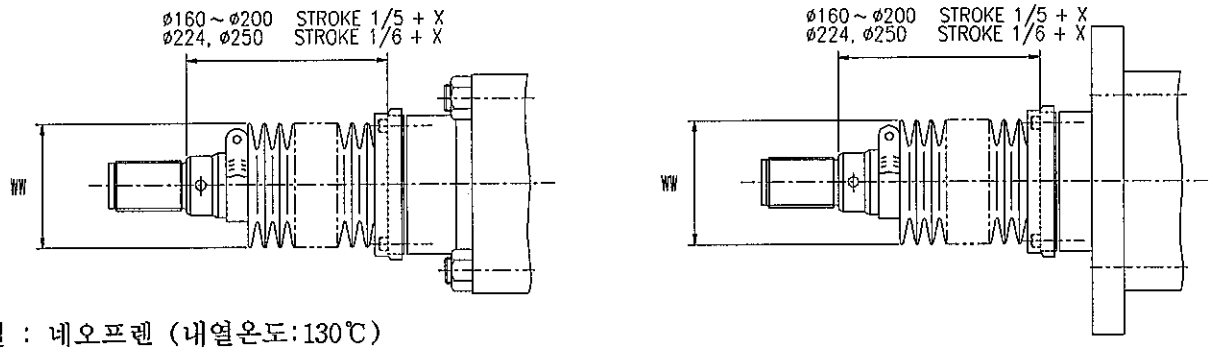
MILL TYPE
HYDRAULIC CYLINDER

BELLOWS 부착시 치수표
및 유압 플랜지 치수표

SD형, LA형, CA형, TC형, FB형 내경 ø40 ~ ø140 FA형

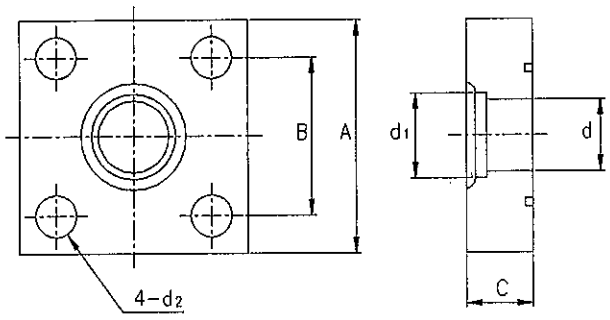


내경 ø160~ø250



*재질 : 네오프렌 (내열온도:130℃)
방진카바에 특수한 사용환경이 요구될 때는 당사에 문의하여주십시오.

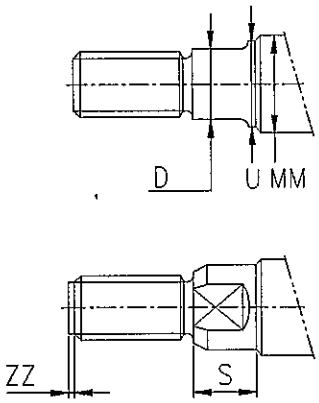
기호 \ 내경		φ40	φ50	φ63	φ80	φ100	φ125	φ140	φ160	φ180	φ200	φ224	φ250
WW	ROD A형	φ63	φ71	φ80	φ100	φ125	φ140	φ160	φ180	φ180	φ200	φ220	φ240
	ROD	φ50	φ63	71φ	φ80	φ100	φ125	φ125	φ140	φ160	φ180	φ180	φ200
X	SD,LA CA,TC	42	57	60	53	64	64	69	60	80	78	82	78
	FA	45	55	55	55	65	65	65	60	80	78	82	78
	FB	39	55	65	55	64	64	69	66	86	82	86	91

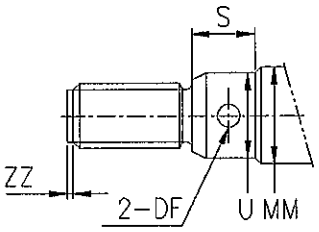


	ø40	ø50	ø63	ø80	ø100	ø125	ø140	ø160	ø180	ø200	ø224	ø250
JIS 규격	SSA15			SSA20		SSA25			SSA32	SSA40		SSA50
배관 규격	PT 1/2			PT 3/4		PT 1			PT 1 1/4	PT 1 1/2		PT 2
A	□ 54			□ 58		□ 68			□ 76	□ 92		□ 106
B	□ 36			□ 40		□ 48			□ 56	□ 65		□ 73
C	22			22		28			28	36		36
d	ø 16			ø 20		ø 25			ø 31.5	ø 37.5		ø 47.5
d1	ø22.2 +0.2 0			ø27.7 +0.2 0		ø34.5 +0.3 0			ø43.2 +0.3 0	ø49.1 +0.3 0		ø61.1 +0.3 0
d2	ø 11			ø 11		ø 13			ø 13	ø 18		ø 18
S.H.C.S	M10			M10		M12			12	18		18
O-RING	G25			G30		G35			G40	G50		G60

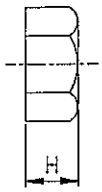
MILL TYPE
HYDRAULIC CYLINDER

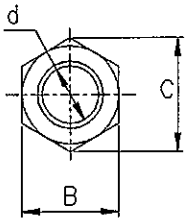
로드선단 나사부 형상 및 치수표
LOCK NUT 형상 및 치수표





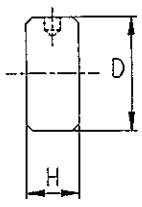
	로드 A형						로드 B형					
	D	DF	MM	S	U	ZZ	D	DF	MM	S	U	ZZ
ø40	24	—	ø28	—	—	—	19	—	ø22.4	—	—	—
ø50	30	—	ø35.5	—	—	—	24	—	ø28	—	—	—
ø63	41	—	ø45	25	ø44	—	30	—	ø35.5	25	ø34.5	—
ø80	50	—	ø56	28	ø55	—	41	—	ø45	28	ø44	—
ø100	65	—	ø71	34	ø70	5	50	—	ø56	34	ø55	—
ø125	85	—	ø90	39	ø89	5	65	—	ø71	39	ø70	5
ø140	—	ø12	ø100	35	ø99	5	75	—	ø80	40	ø79	5
ø160	—	ø15	ø112	30	ø111	5	85	—	ø90	30	ø89	5
ø180	—	ø15	ø125	35	ø124	5	—	ø12	ø100	35	ø99	5
ø200	—	ø15	ø140	33	ø139	5	—	ø15	ø112	33	ø111	5
ø224	—	ø15	ø160	35	ø159	5	—	ø15	ø125	35	ø124	5
ø250	—	ø15	ø180	35	ø179	5	—	ø15	ø140	35	ø139	5

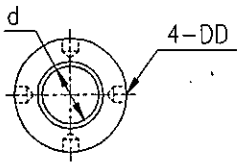




치수표 /M20~M95

	M20x1.5	M24x1.5	M30x1.5	M39x1.5	M48x1.5	M64x2	M72x2	M80x2	M95x2
H	16	19	24	31	38	51	58	64	76
B	$30^{\ 0}_{-0.8}$	$36^{\ 0}_{-1.0}$	$46^{\ 0}_{-1.0}$	$60^{\ 0}_{-1.2}$	$75^{\ 0}_{-1.2}$	$95^{\ 0}_{-1.4}$	$105^{\ 0}_{-1.4}$	$115^{\ 0}_{-1.4}$	$135^{\ 0}_{-1.6}$
C	34.6	41.6	53.1	69.3	86.5	110	121	133	153





치수표 /M100~M170

	M100x2	M120x2	M130x2	M150x2	M170x3
H	80	96	104	120	136
D	ø150	ø180	ø200	ø230	ø260
DD	ø15	ø15	ø20	ø20	ø20
Z	18	18	25	25	25