



ISTC CO., LTD



Hydraulic Pneumatic Technology Products

소형실린더 ISS₂ 시리즈

SMALL SIZE CYLINDER
ISS2 SERIES

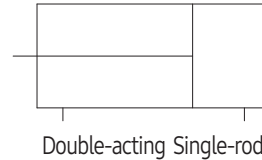


소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

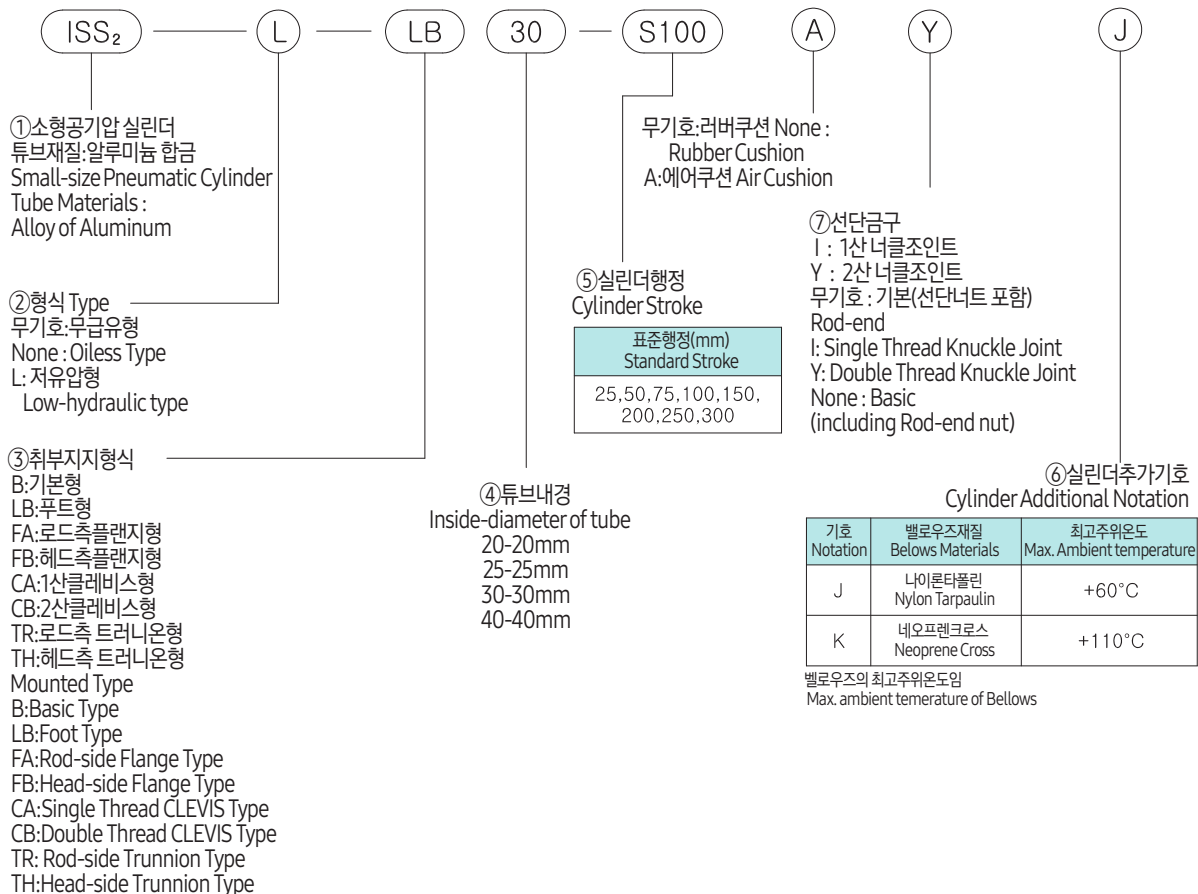
일반형: Ø20, Ø25, Ø30, Ø40 General Type : Ø20, Ø25, Ø30, Ø40



> 표시기호 Symbol



> 형식 표시 방법 Indication of Model



소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

형식 및 기타사양 Type and Other Specifications

> 형식 Type

표시기호 Series	형식 Type	작동방식 Operating Type	피스톤패킹 Piston packing	비고 Remarks
ISS ₂ N	무급유형 Oilless Type	복동형 Double-acting Type	특수패킹 Special Packing	자석기본내장형 Basic Built-in of Magnet Type
ISS ₂ L	저유압형 Low-Hydraulic Type	복동형 Double-acting Type	특수패킹 Special Packing	

> 사양 Specification

형식 Type	무급유형 Oilless Type	저유압형 Low-Hydraulic Type
사용유체 Working Fluid	공기 Air	유압작동유 Hydraulic Working Oil
시험압력 Test Pressure	15kgf/cm ²	
최고사용압력 Max. set pressure	9.9kgf/cm ²	
최저사용압력 Min. set pressure	0.5kgf/cm ²	1.0kgf/cm ²
사용온도 Working Temperature	-10~70°C	
사용속도 Working Speed	50~700mm/sec	0.5~300mm/sec
쿠션 Cushion	RUBBER Cushion	
나사 공차 Screw Tolerance	KS2급 2nd KS Level	
행정길이의 허용차 Allowance of stroke length	~250 ^{+1.0} ₀	251~500 ^{+1.4} ₀

> 취부형식 Mounted Type

부착형식 Mounted Type	부속품 Parts	기본부착품 Basic Parts			주문품 Special Option		
		부착용너트 Mounted-nut	로드선단너트 Rod-end Nut	클레비스용핀 Pin for CLEVIS	1산너클조인트 Single Knuckle Joint	2산너클조인트 Double Knuckle Joint	벨로우즈 Bellows
(B)기본형 Basic Type		● 1개(EA)	●	-	●	●	●
(LB)푸트형 Foot Type		● 2개(EA)	●	-	●	●	●
(FA)로드측 플랜지형 Rod-side Flange Type		● 1개(EA)	●	-	●	●	●
(FB)헤드측 플랜지형 Head-side Flange Type		● 1개(EA)	●	-	●	●	●
(CD)클레비스일체형 CLEVIS Single-body Type		-	●	-	●	●	●
(CA)1산클레비스형 Single Thread CLEVIS Type		-	●	-	●	●	●
(CB)2산클레비스형 Double Thread CLEVIS Type		-	●	●	●	●	●
(TH)헤드측 트러니온형 Head-side Trunnion Type		● 1개(EA)	●	-	●	●	●
(TR)로드측 트러니온형 Rod-side Trunnion Type		● 1개(EA)	●	-	●	●	●
(BC)(보스컷)기본형 (Both cut) Basic Type		● 1개(EA)	●	-	●	●	●
(FC)(보스컷)플랜지형 (Both cut) Flendge Type		● 1개(EA)	●	-	●	●	●

※부착용너트, 클레비스일체형, 1산클레비스형, 2산클레비스형에는 없음

※None in mounting nut, CLEVIS one body type, single thread CLEVIS type and double thread CLEVIS type

> 표준행정표 Standard Stroke Table

I-D(mm)	표준행정 Standard Stroke	최대행정범위 Max. Stroke Range
∅20	25, 50, 75, 100, 125, 150, 200, 250, 300	500
∅25		
∅30		
∅40		

※500행정 이상의 경우 별도 문의 바람

※Ask us about over 500 stroke.

단위 unit :mm

> 선단 부품 Rod-end Parts

I-D(mm)	20	25, 30	40
선단금구 Rod-end			
1산너클조인트 Single Knuckle Joint	ISS ₂ -20-I	ISS ₂ -25/30-I	ISS ₂ -40-I
2산너클조인트 Double Knuckle Joint	ISS ₂ -20-Y	ISS ₂ -25/30-Y	ISS ₂ -40-Y

※ISS₂40용 선단금구는 중형시리즈 ISM과 동일함

※Rod-end for ISS₂40 is same with Mid Series ISM.

> 지지 부품 Mounted Parts

I-D(mm)	20	25, 30	40
선단금구 Rod-end			
푸트형 Foot Type	ISS ₂ -LB20	ISS ₂ -LB25/30	ISS ₂ -LB40
플랜지형 Flange Type	ISS ₂ -F 20	ISS ₂ -F 25/30	ISS ₂ -F 40
1산클레비스형 Single Thread CLEVIS Type	ISS ₂ -CA20	ISS ₂ -CA25/30	ISS ₂ -CA40
2산클레비스형(핀포함) Double Thread CLEVIS Type(Including Pin)	ISS ₂ -CB20	ISS ₂ -CB25/30	ISS ₂ -CB40
트러니온형 Trunnion Type	ISS ₂ -T 20	ISS ₂ -T 25/30	ISS ₂ -T 40

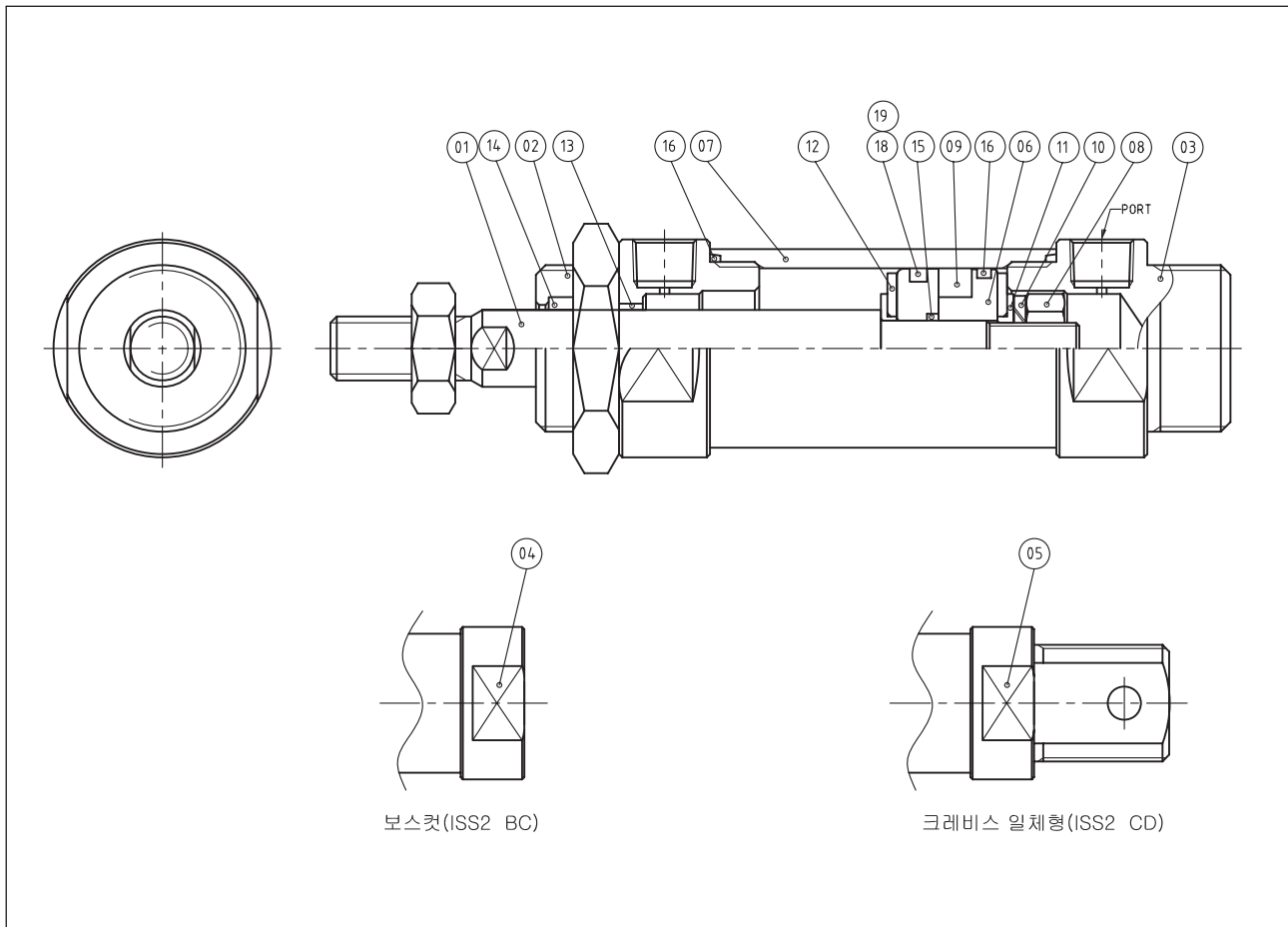
※푸트 금구 주문시 1대분의 경우 2개를 주문할 것

※Should order two Foot for one machine

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

내부 구조도 Inside Structure Drawings

내부 구조도 Inside Structure Drawings



부품리스트 Parts List

No	Name	Materials	Remarks
1	ROD	S45C	
2	ROD COVER	A2024	
3	HEAD COVER	A2024	
4	HEAD COVER	A2024	
5	HEAD COVER	A2024	
6	PISTON	A2024	
7	TUBE	AN6N01	
8	PISTON LOCK NUT	S10C	
9	MAGNET	STEEL	
10	SPRING WASHER	SCM4	
11	SLEEVE	BSBM	
12	DAMPER	URETHANE	
13	DU-BUSH	SPCB	

패킹리스트 Packing List

No	Name	Materials	Inside-diameter of Tube			
			Ø20	Ø25	Ø30	Ø40
14	ROD PACKING	NBR	DRP10	DRP12	DRP12	DRP16
15	ROD O-RING	NBR	S6	S8	S8	S10
16	TUBE O-RING	NBR	S22	S22.4	Ø32X15	S40
17	WEARING	POM	20X17X2	25X22X2	30X27X2	40X37X3

무급유형 패킹 Oilless Packing

17	WEARING	POM	20X17X2	25X22X2	30X27X2	40X37X3
18	PISTON PACKING	NBR	OPA 20	OPA 25	OPA 30	OPA 40

저유압 패킹 Low Hydraulic Packing

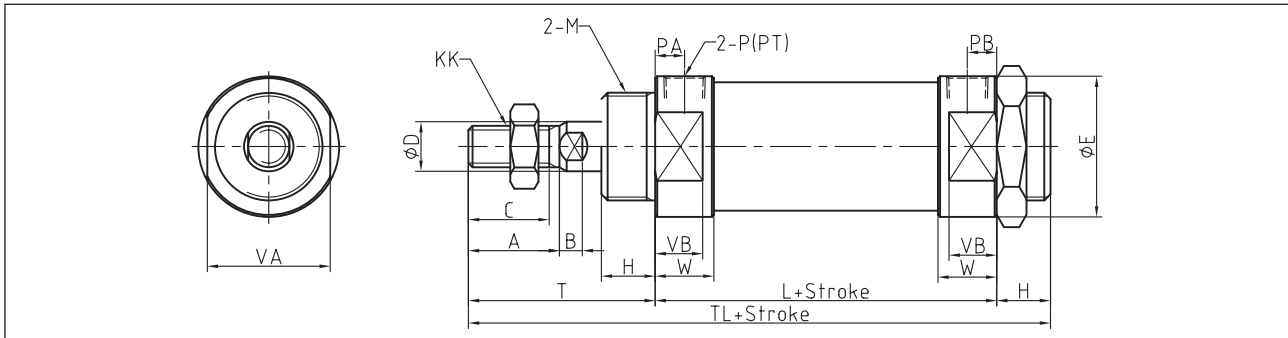
17	WEARING	POM	20X17X2	25X22X2	30X27X2	40X37X3
19	PISTON PACKING	NBR	HSD 20	HSD 25	HSD 30	HSD 40

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

일반형(B, LB) General Type(B, LB)

> 기본형(B) Basic Type(B)

■ 무급유형 Oilless type ISS2 -B ·저유압형 Low hydraulic type ISS2 L-B



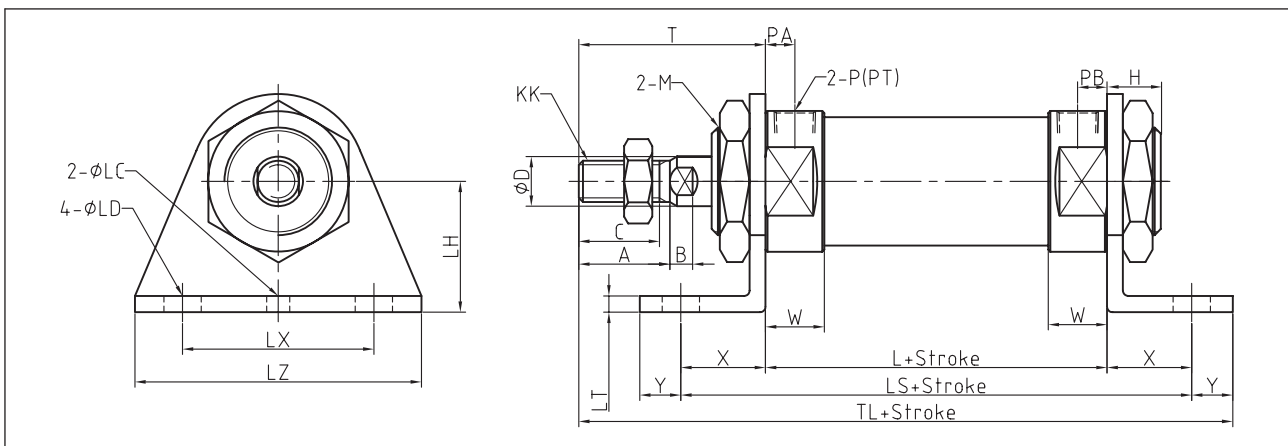
I-D(mm)	Stroke Range	C	A	ØD	H	PA	PB	ØE	B	KK	W	VA	VB	M	P	L
20	~300	15.5	18	10	13	8	8	28	5.0	M8X1.25	14.2	24	12	M20X1.5	1/8	62
25	~300	19.5	22	12	13	8	8	34	5.5	M10X1.25	14.2	30	12	M26X1.5	1/8	62
30	~300	19.5	22	12	13	8	8	38	5.5	M10X1.25	14.8	32	12	M26X1.5	1/8	64
40	~300	21.0	24	16	16	11	11	50	7.5	M14X1.50	21	46	18	M32X2.0	1/4	88

I-D(mm)	T	TL
20	41	116
25	45	120
30	45	122
40	50	154

단위 unit:mm

> 푸트형(LB) Foot Type(LB)

■ 무급유형 Oilless type ISS2 -LB ·저유압형 Low hydraulic type ISS2 L-LB



I-D(mm)	Stroke Range	C	A	ØD	H	PA	PB	B	KK	W	M	P	L	LZ	LX	TL
20	~300	15.5	18	10	13	8	8	5.0	M8X1.25	14.2	M20X1.5	1/8	62	55	41	131
25	~300	19.5	22	12	13	8	8	5.5	M10X1.25	14.2	M26X1.5	1/8	62	55	45	135
30	~300	19.5	22	12	13	8	8	5.5	M10X1.25	14.8	M26X1.5	1/8	64	55	45	137
40	~300	21.0	24	16	16	11	11	7.5	M14X1.50	21	M32X2.0	1/4	88	75	50	173

단위 unit:mm

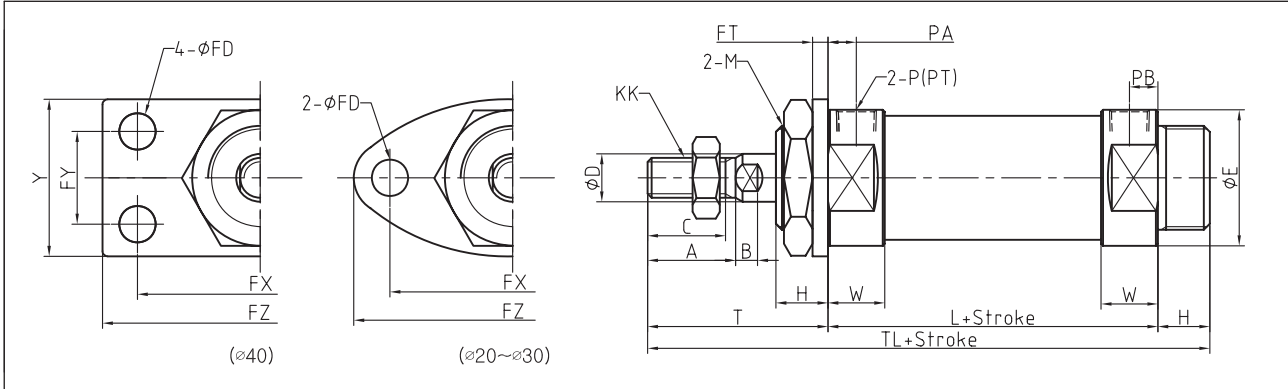
I-D(mm)	X	Y	ØLC	ØLD	LH	LS	LT	T
20	20	8	4	6.8	25	102	3	41
25	20	8	4	6.8	28	102	3	45
30	20	8	4	6.8	28	104	3	45
40	23	12	4	7.0	30	134	3	50

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

일반형(FA, FB) General Type(FA, FB)

>로드측 플랜지형(FA) Rod-side Flange Type(FA)

■ 무급유형 Oilless type ISS2 -B
저유압형 Low hydraulic type ISS2 L-B



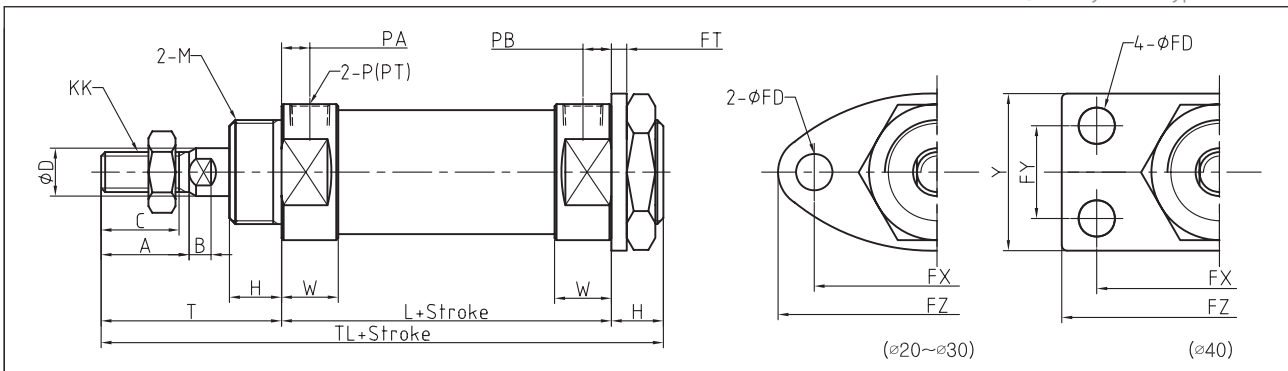
I-D(mm)	Stroke Range	C	A	Y	ØD	H	PA	PB	ØE	B	KK	W	T	TL	M	P(PT)
20	~300	15.5	18	40	10	13	8	8	28	5.0	M8X1.25	14.2	41	116	M20X1.5	1/8
25	~300	19.5	22	42	12	13	8	8	34	5.5	M10X1.25	14.2	45	120	M26X1.5	1/8
30	~300	19.5	22	42	12	13	8	8	38	5.5	M10X1.25	14.8	45	122	M26X1.5	1/8
40	~300	21.0	24	52	16	16	11	11	50	7.5	M14X1.50	21	50	154	M32X2.0	1/4

단위 unit:mm

I-D(mm)	L	ØFD	FT	FX	FY	FZ
20	62	7	3	60	-	75
25	62	7	4.5	60	-	75
30	64	7	4.5	60	-	75
40	88	7	4.5	66	36	82

>헤드측플랜지형(FB) Head-side Flange Type(FB)

■ 무급유형 Oilless type ISS2 -FB
저유압형 Low hydraulic type ISS2 L-B



I-D(mm)	Stroke Range	C	A	Y	ØD	H	PA	PB	B	KK	W	T	TL	M	P(PT)
20	~300	15.5	18	40	10	13	8	8	5.0	M8X1.25	14.2	41	116	M20X1.5	1/8
25	~300	19.5	22	42	12	13	8	8	5.5	M10X1.25	14.2	45	120	M26X1.5	1/8
30	~300	19.5	22	42	12	13	8	8	5.5	M10X1.25	14.8	45	122	M26X1.5	1/8
40	~300	21.0	24	52	16	16	11	11	7.5	M14X1.50	21	50	154	M32X2.0	1/4

단위 unit:mm

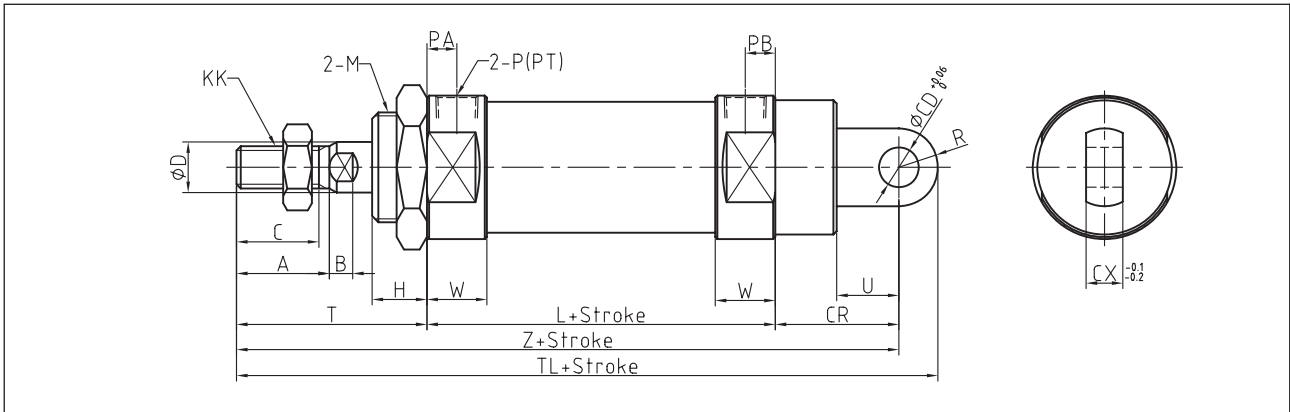
I-D(mm)	L	ØFD	FT	FX	FY	FZ
20	62	7	3	60	-	75
25	62	7	4.5	60	-	75
30	64	7	4.5	60	-	75
40	88	7	4.5	66	36	82

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

일반형(CA, CB) General Type(CA, CB)

>1산 클레비스형(CA) Single-thread CLEVIS Type(CA)

■ 무급유형 Oilless type ISS2 -CA
저유압형 Low hydraulic type ISS2 L-CA



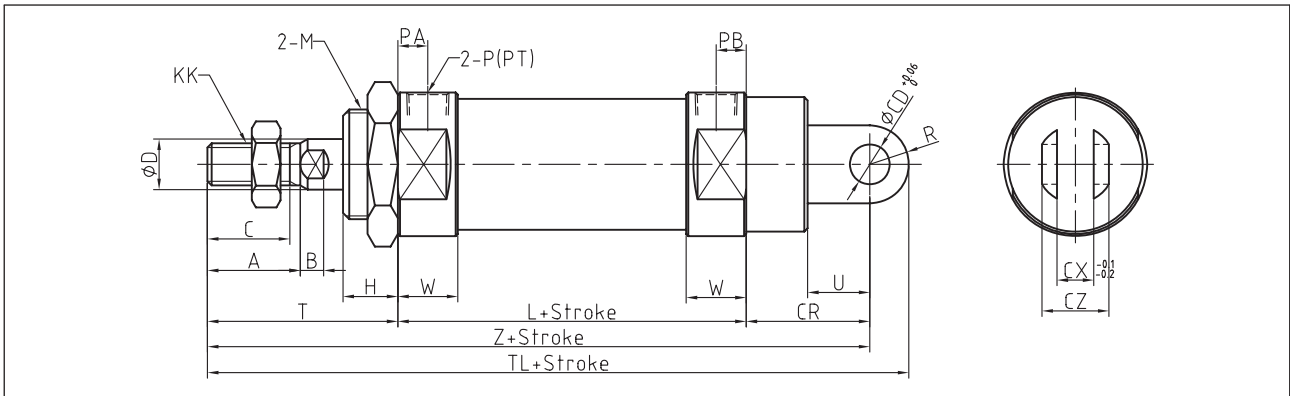
I-D(mm)	Stroke Range	C	A	ØD	H	PA	PB	T	B	KK	W	Z	TL	M	P(PT)	L
20	~300	15.5	18	10	13	8	8	41	5.0	M8X1.25	14.2	133	142	M20X1.5	1/8	62
25	~300	19.5	22	12	13	8	8	45	5.5	M10X1.25	14.2	137	146	M26X1.5	1/8	62
30	~300	19.5	22	12	13	8	8	45	5.5	M10X1.25	14.8	139	148	M26X1.5	1/8	64
40	~300	21.0	24	16	16	11	11	50	7.5	M14X1.50	21	177	188	M32X2.0	1/4	88

단위 unit:mm

I-D(mm)	CR	U	ØCD	CX	R
20	30	14	9	10	9
25	30	14	9	10	9
30	30	14	9	10	9
40	39	18	10	15	11

>2산 클레비스형(CB) Double-thread CLEVIS Type(CB)

■ 무급유형 Oilless type ISS2 -CB
저유압형 Low hydraulic type ISS2 L-CB



I-D(mm)	Stroke Range	C	A	ØD	H	PA	PB	T	B	KK	W	Z	TL	M	P(PT)	L
20	~300	15.5	18	10	13	8	8	41	5.0	M8X1.25	14.2	133	142	M20X1.5	1/8	62
25	~300	19.5	22	12	13	8	8	45	5.5	M10X1.25	14.2	137	146	M26X1.5	1/8	62
30	~300	19.5	22	12	13	8	8	45	5.5	M10X1.25	14.8	139	148	M26X1.5	1/8	64
40	~300	21.0	24	16	16	11	11	50	7.5	M14X1.50	21	177	188	M32X2.0	1/4	88

단위 unit:mm

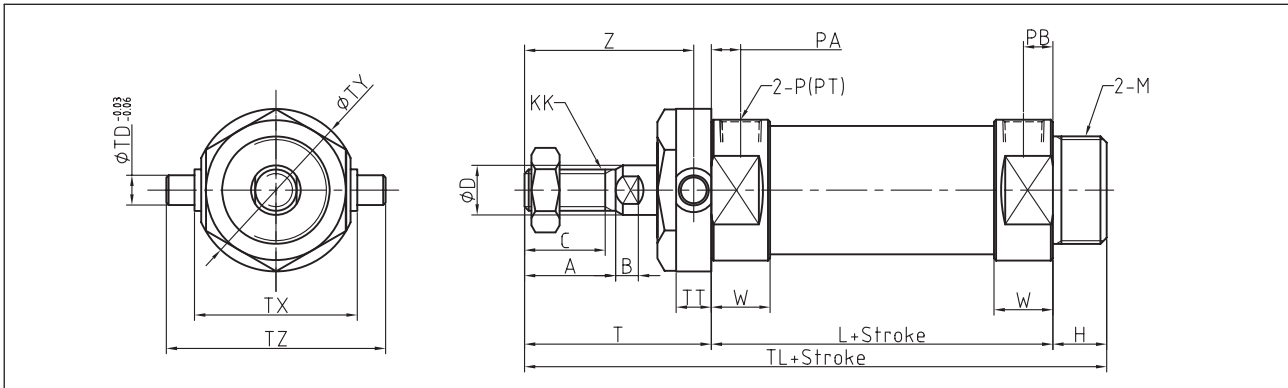
I-D(mm)	CR	U	ØCD	CX	CZ	R
20	30	14	9	10	19	9
25	30	14	9	10	19	9
30	30	14	9	10	19	9
40	39	18	10	15	30	11

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

일반형(TR, TH) General Type(TR, TH)

>로드측트러니온형 (TR) Rod-side Trunnion Type(TR)

- 무급유형 Oilless type ISS2-TR
- 저유압형 Low hydraulic type ISS2 L-TR



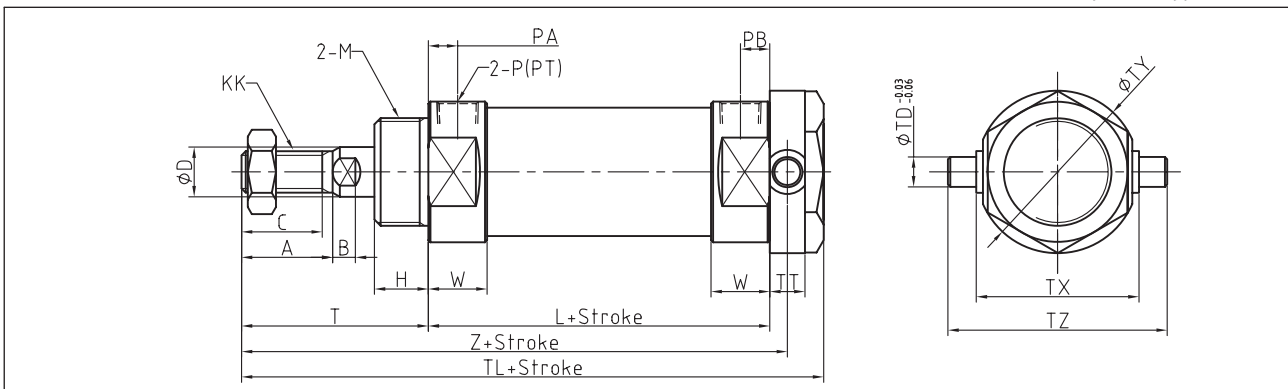
I-D(mm)	Stroke Range	C	A	ØD	H	PA	PB	T	B	KK	W	Z	TL	M	P(PT)	L
20	~300	15.5	18	10	13	8	8	41	5.0	M8X1.25	15	36	116	M20X1.5	1/8	62
25	~300	19.5	22	12	13	8	8	45	5.5	M10X1.25	15	40	122	M26X1.5	1/8	62
30	~300	19.5	22	12	13	8	8	45	5.5	M10X1.25	15	40	124	M26X1.5	1/8	64
40	~300	21.0	24	16	16	11	11	50	7.5	M14X1.50	21	44.5	154	M32X2.0	1/4	88

단위 unit:mm

I-D(mm)	ØTD	TT	TX	ØTY	TZ
20	8	10	32	32	52
25	9	10	40	40	60
30	9	10	40	40	60
40	10	11	53	53	77

> 헤드측트러니온형 (TH) Head-side Trunnion Type(TH)

- 무급유형 Oilless type ISS2-TH
- 저유압형 Low hydraulic type ISS2 L-TH



I-D(mm)	Stroke Range	C	A	ØD	H	PA	PB	T	B	KK	W	Z	TL	M	P(PT)	L
20	~300	15.5	18	10	13	8	8	41	5.0	M8X1.25	15	108	116	M20X1.5	1/8	62
25	~300	19.5	22	12	13	8	8	45	5.5	M10X1.25	15	112	122	M26X1.5	1/8	62
30	~300	19.5	22	12	13	8	8	45	5.5	M10X1.25	15	114	124	M26X1.5	1/8	64
40	~300	21.0	24	16	16	11	11	50	7.5	M14X1.50	21	143.5	154	M32X2.0	1/4	88

단위 unit:mm

I-D(mm)	ØTD	TT	TX	ØTY	TZ
20	8	10	32	32	52
25	9	10	40	40	60
30	9	10	40	40	60
40	10	11	53	53	77

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

양로드형 Double-Rod Type

>형식표시방법 Indication of Model

ISS₂

W

부착형식 Mounted Type

튜브내경 I-D(mm)

행정 Stroke

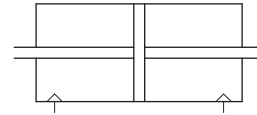
선단금구 Rod-end

※ISS₂시리즈 일반형 표기 방법 참조
※Refer to method for indication of general type of ISS₂series.

>사양 Specification

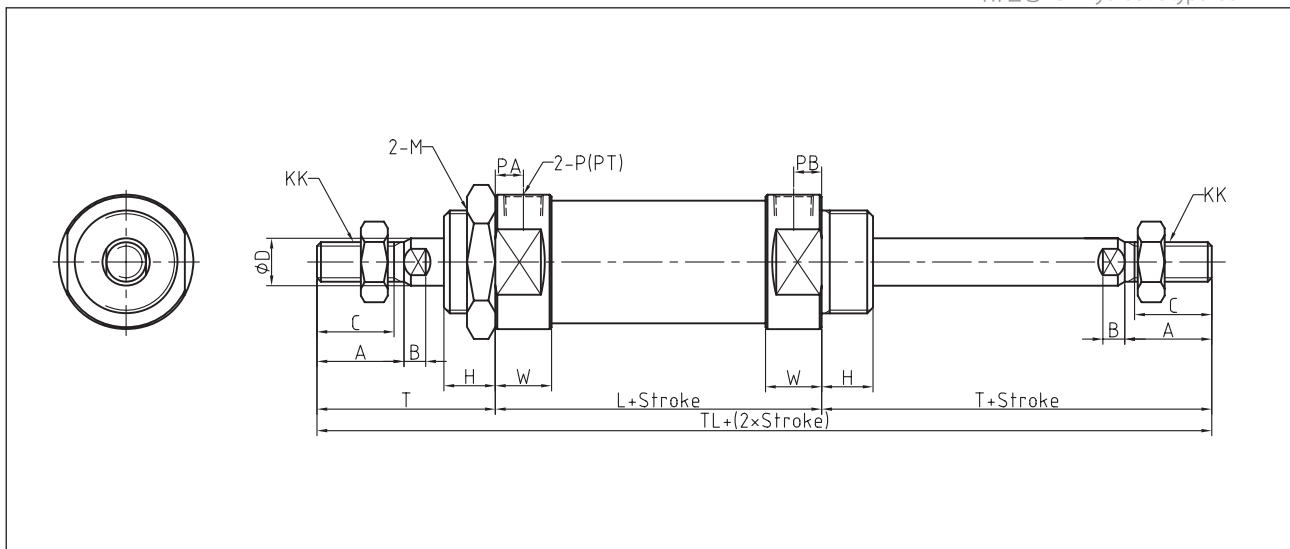
형식 type	무급유형 Oilless Type	저유압형 Low-Hydraulic Type
사용유체 Working Fluid	공기 Air	유압작동유 Hydraulic Working Oil
시험압력 Test Pressure	15kgf/cm ²	
최고사용압력 Max. set pressure	9.9kgf/cm ²	
최저사용압력 Min. set pressure	0.5kgf/cm ²	1.8kgf/cm ²
사용온도 Working Temperature	-10~70 °C	
사용속도 Working Speed	50~500mm/s	
쿠션 Cushion	RUBBER Cushion	
나사공차 Screw Tolerance	KS2급 2nd KS level	
I-D(mm)	Standard Stroke	
20,25,30,40	25,50,75,100,150,200,250,300	

>표시기호 Symbol



>외형치수도/기본형 Outside dimension Drawings/Basic type

■ 무급유형 Oilless type ISS2-W
■ 저유압형 Low hydraulic type ISS2 L-W



I-D(mm)	Stroke Range	C	A	ØD	H	PA	TL	B	KK	W	M	P(PT)	L	T
20	~300	15.5	18	10	13	8	144	5.0	M8X1.25	15	M20X1.5	1/8	62	41
25	~300	19.5	22	12	13	8	152	5.5	M10X1.25	15	M26X1.5	1/8	62	45
30	~300	19.5	22	12	13	8	154	5.5	M10X1.25	15	M26X1.5	1/8	64	45
40	~300	21.0	24	16	16	11	188	7.5	M14X1.50	21	M32X2.0	1/4	88	50

단위 unit:mm

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

벨로우즈 부착형/일반형(BC) Bellows Mounted Type / General Type(BC)

벨로우즈 부착형 / Bellows Mounted Type

> 형식 표시 방법 Indication of Model

ISS₂

J

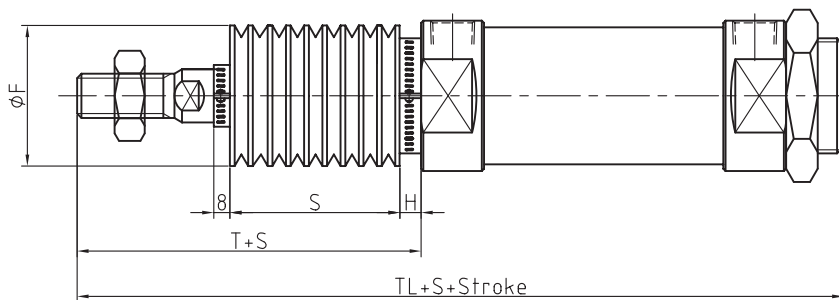
부착형식 Mounted Type

튜브내경 I-D(mm)

행정 Stroke

선단금구 Rod-end

■ 벨로우즈 부착 / Bellows Mounted
J: 나일론테플론60 / Nylon Teflon
K: 네오프렌크로스110 / Neoprene Cross



I-D(mm)	ØF	H	T	S	TL
20	36	14	56	0.3 × Stroke + 3	131
25	36	14	60		135
30	36	14	60		137
40	40	16	67	0.25 × Stroke + 3	171

※기타 표시하지 않은 치수는 ISS2 일반형과 동일
※Dimension which isn't indicated is same with general type of ISS₂ SERIES

단위 unit : mm

> 보스컷트형 Boss Cut Type

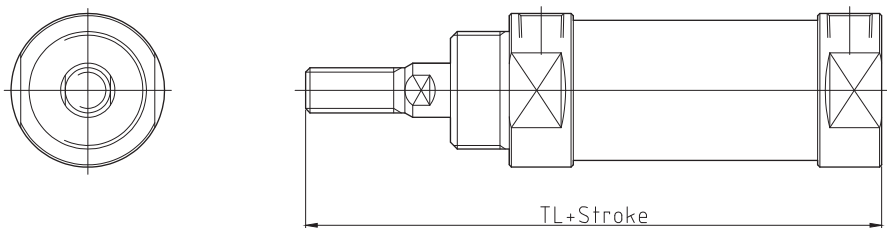
ISS₂

BC

튜브내경 I-D(mm)

행정 Stroke

선단금구 Rod-end



※헤드축 커버의 나사부분을 제거하여 전체길이를 축소시킨 타입으로 공간의 축소를 실현하였다
※Dimension which isn't indicated is same with general type of ISS₂ SERIES

COMPACT(보스컷트형) / Both Cut Type	
I-D(mm)	TL
20	103
25	107
30	109
40	138

※기타 표시하지 않은 치수는 ISS2 일반형과 동일
※Dimension which isn't indicated is same with general type of ISS₂ SERIES

단위 unit : mm

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

클레비스 일체형(CD) One body type of CLEVIS(CD)

>형식표시방법 Indication of Model

ISS₂

CD

취부형식 Mounted Type

튜브내경 I-D(mm)

행정 Stroke

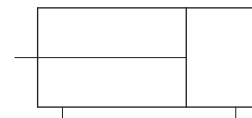
선단금구 Rod-end

※ISS₂시리즈 일반형 표기 방법 참조
※Refer to method for indication of general type of ISS₂series.

>사양 Specification

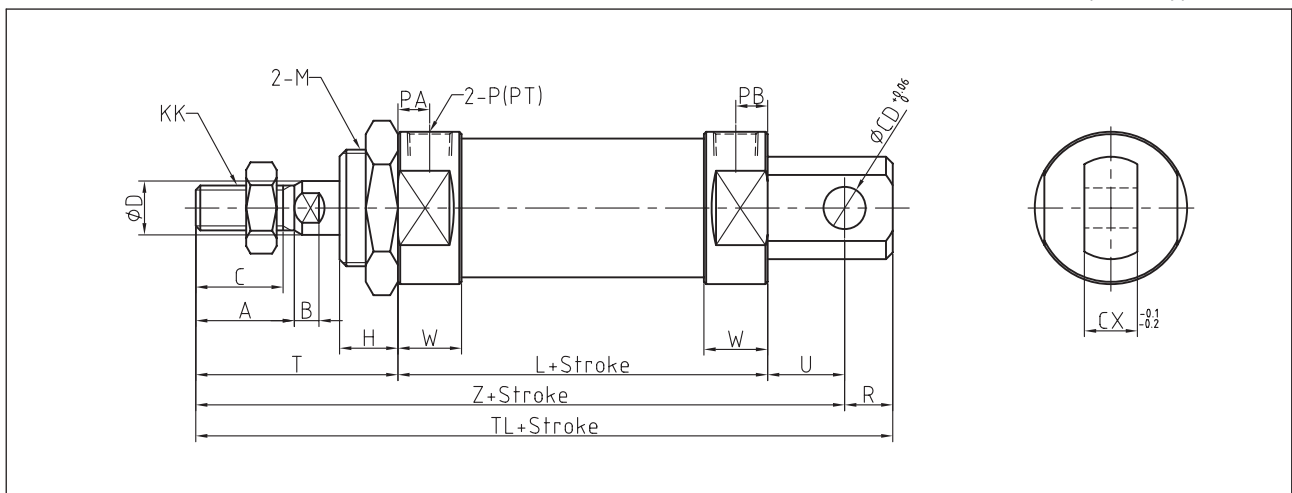
형식 type	무급유형 Oilless Type
작동방식 Operating Type	복동 Double-acting
사용유체 Working Fluid	공기 Air
시험압력 Test Pressure	15kgf/cm ²
최고사용압력 Max. working pressure	9.9kgf/cm ²
최저사용압력 Min. working pressure	0.5kgf/cm ²
사용온도 Working Temperature	-10°C ~ +70°C
급유 Oil Supply	불필요 None
나사공차 Screw Tolerance	KS2급 2nd KS level
행정길이의 허용차 Allowance of stroke length	+1.4 0

>표시기호 Symbol



>클레비스 일체형(CD) One body type of CLEVIS(CD)

■ 무급유형 Oilless Type ISS2 W-CD
■ 저유압형 Low hydraulic type ISS2 L-CD



I-D(mm)	Stroke Range	C	A	B	ØCD	CX	ØD	H	KK	L	M	PA	PB	P(PT)	R
20	~300	15.5	18	5.0	8	12	10	13	M8X1.25	62	M20X1.5	8	8	1/8	9
25	~300	19.5	22	5.5	8	12	12	13	M10X1.25	62	M26X1.5	8	8	1/8	9
32	~300	19.5	22	5.5	10	20	12	13	M10X1.25	64	M26X1.5	8	8	1/8	12
40	~300	21.5	24	7.5	10	20	16	16	M14X1.50	88	M32X2.0	11	11	1/4	12

단위 unit:mm

I-D(mm)	T	TL	U	W	Z
20	41	124	12	15	115
25	45	131	12	15	119
32	45	136	15	15	124
40	50	165	15	21	153

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

다단 행정 양로드형 Multiple Stroke Double-rod Type

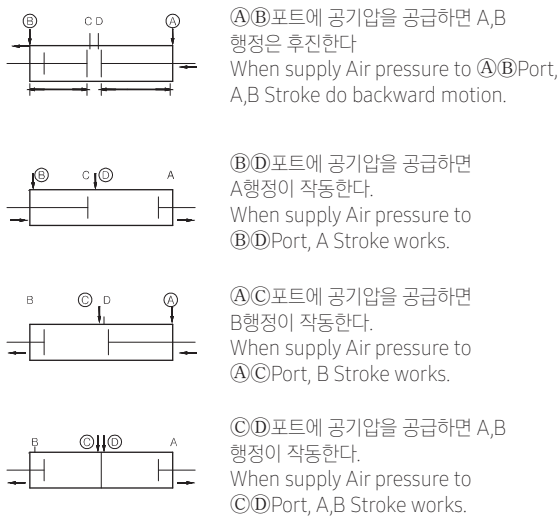
>형식 표시 방법 Indication of Model

ISS₂ TW 부착형식 Mounted Type 튜브내경 I-D(mm) A행정 Stroke A + B행정 Stroke B 선단금구 Rod-end

※ISS₂시리즈 일반형 표기 방법 참조 ※/Refer to method for indication of general type of ISS₂series.
헤드측을 조합, 2개의 실린더를 일체화시켜 실린더 행정을 왕복과 더불어 3단계로 제어할 수 있다.
Assemble Head-side, make one body the Cylinder, conduct double Cylinder Stroke and control it by 3 steps.

■ 벨로우즈 부착 / Bellows Mounted
J: 나일론테플론60 / Nylon Teflon
K: 네오프렌크로스110 / Neoprene Cross

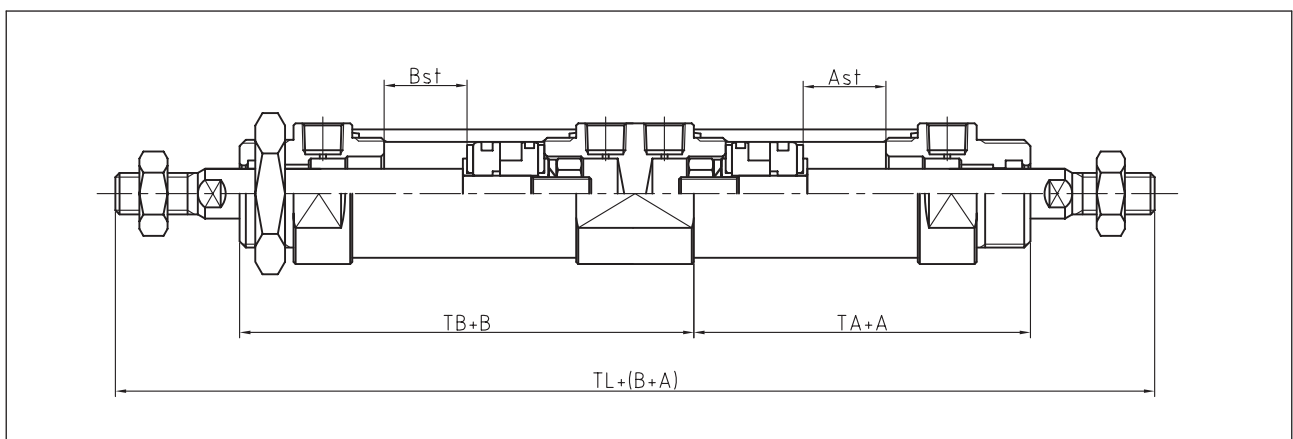
>표시기호 Symbol



>사양 Specification

형식 type	무급유형 No Oil Supply
사용유체 Working Oil	공기 Air
시험압력 Test Pressure	15kgf/cm ²
최고사용압력 Max. set pressure	9.9kgf/cm ²
최저사용압력 Min. set pressure	0.5kgf/cm ²
사용속도 Working Speed	50~750mm/sec
작동방식 Operating Type	복동 Double-acting
쿠션 Cushion	RUBBER Cushion
부착형식 Mounted Type	기본형, 푸트형, 플랜지형 Basic Type, Foot Type, Flange Type
적용튜브내경 Applied inside-diameter of tube	Ø20, Ø25, Ø30, Ø40
행정 A,B Stroke A,B	~300mm

>외형 치수도/기본형 Outside Dimension Drawings/Basic Type



I-D(mm)	TA	TB	TL
20	61	78	208
25	61	78	216
30	63	80	220
40	83	109	276

단위 unit:mm

※기타 표시하지 않은 치수는 ISS₂ 일반형과 동일
※Dimension which isn't indicated is same with general type of ISS₂ SERIES

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

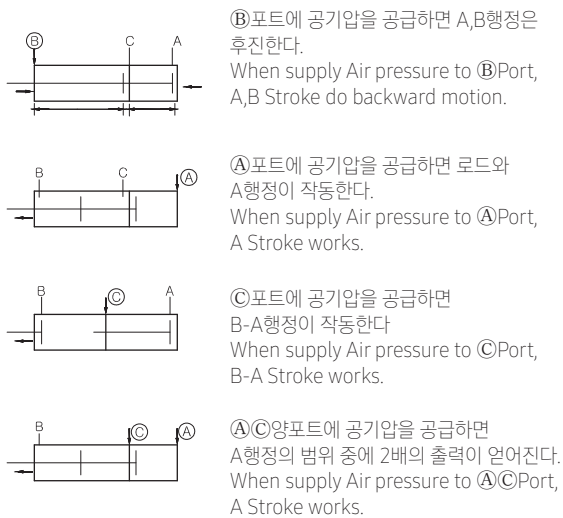
다단행정 편로드형 Multiple Stroke Single Rod Type

>형식표시방법 Indication of Model

ISS₂ TS 부착형식 Mounted Type 튜브내경 I-D(mm) A행정 Stroke A + B행정 Stroke B 선단금구 Rod-end

※ISS2 시리즈 일반형 형식 표기 방법 참조 Refer to method for indication of general type of ISS₂series.
두 개의 실린더를 직렬로 연결, 일체화하여 실린더 행정을 왕복과 더불어 2단계로 제어 가능하고, 2배의 실린더 출력을 얻을 수 있다.
Connect two cylinder by series, make one body, then, can control cylinder stroke by two steps with round trip and get twice more outputs.

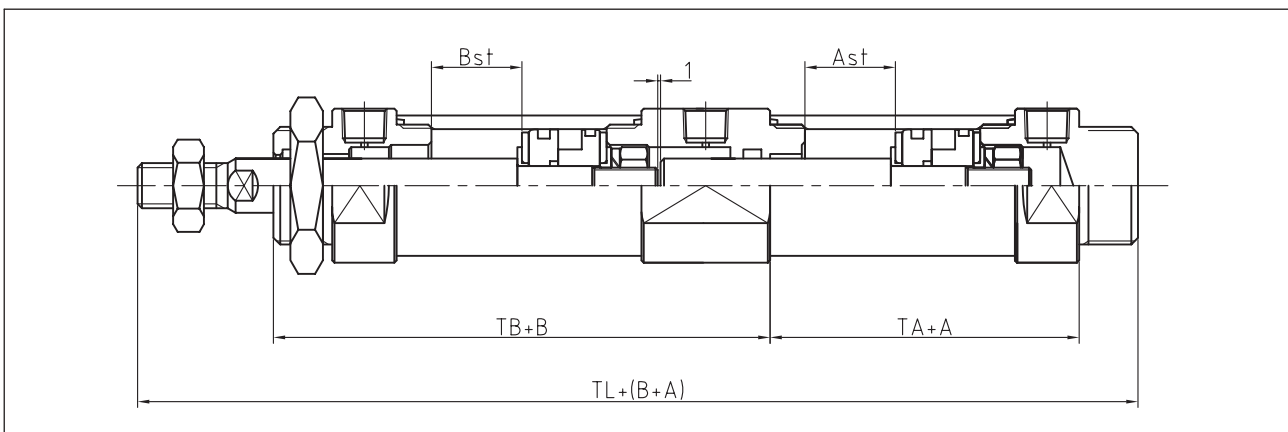
>표시기호 Symbol



>사양 Specification

형식 type	무유형 No Oil Supply
시험압력 Test Pressure	15kgf/cm ²
최고사용압력 Max. set pressure	9.9kgf/cm ²
최저사용압력 Min. set pressure	0.5kgf/cm ²
사용속도 Working Speed	50~75mm/sec
작동방식 Operating Type	복동 Double-acting
쿠션 Cushion	RUBBER Cushion
부착형식 Mounted Type	기본형, 축방향 푸트형, 로드측 플랜지형, 헤드측 1산물레바스형, 2산물레바스형 Basic Type, Foot Type of shaft direction, Rod-side Flange Type, Head-side Flange Type: single Thread CLEVIS Type, Double Thread CLEVIS Type
적용튜브내경 Applied inside-diameter of tube	Ø20, Ø25, Ø30, Ø40
행정 A,B Stroke A,B	~300mm

>외형 치수도/기본형 Outside Dimension Drawings/Basic Type



단위 unit:mm

I-D(mm)	TA	TB	TL
20	48	62	164
25	48	62	168
30	50	64	172
40	67	88	222

※기타 표시하지 않은 치수는 ISS2 일반형과 동일
※Dimension which isn't indicated is same with general type of ISS₂ SERIES

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

가변 행정 실린더/전진시 조정형 Control Stroke Cylinder /Control type of Forward Motion

>형식 표시 방법 Indication of Model

ISS₂ **SJ** **부착형식 Mounted Type** **튜브내경 I-D(mm)** **행정 Stroke** × **행정조정범위 Stroke Control Range** **선단금구 Rod-end**

※ISS₂ 시리즈 일반형 형식 표기 방법 참조. Refer to method for indication of general type of ISS₂ series.

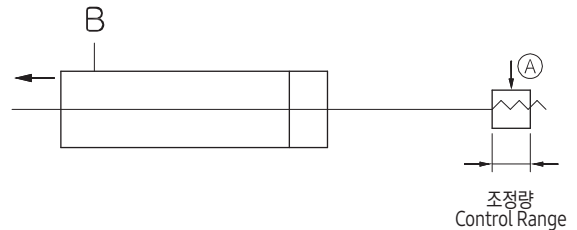
A:0~25mm/m Control Range
B:0~50mm/m Control Range

실린더 전진시 행정을 전체 행정에서 0-50mm까지 가변조정 가능, 헤드측에 행정조정기구를 부착하여 전진시의 행정을 조정한다.
Can control variably Stroke at Cylinder Forward-motion from whole stroke to 0-50mm. Also, can control stroke at forward-motion by mounting stroke controller to Head-side.

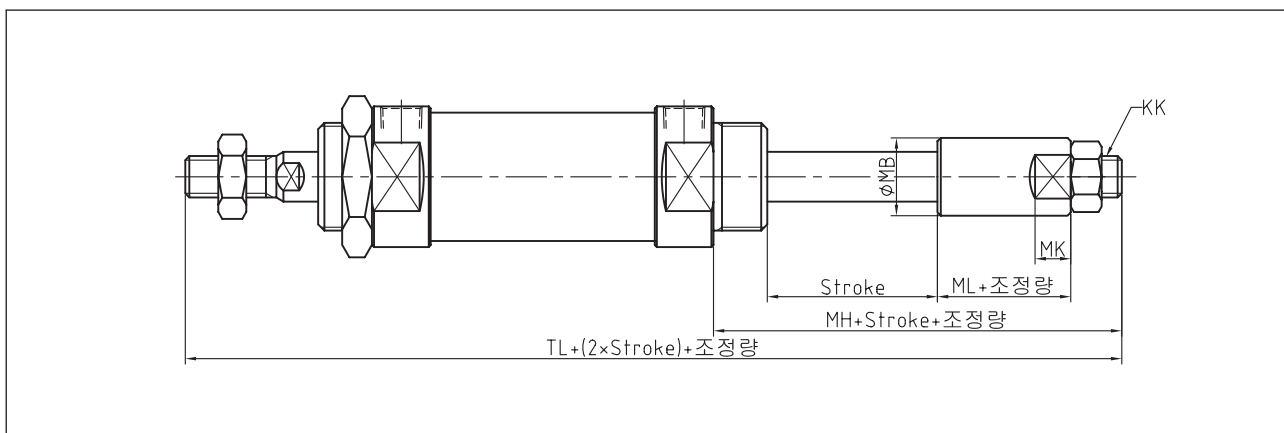
>사양 Specification

형식 type	무급유형 Oilless Type
사용유체 Working Fluid	공기 Air
시험압력 Test Pressure	15kgf/cm ²
최고사용압력 Max. set pressure	9.9kgf/cm ²
최저사용압력 Min. set pressure	0.5kgf/cm ²
사용속도 Working Speed	50~750mm/sec
쿠션 Cushion	RUBBER Cushion
부착형식 Mounted Type	기본형, 축방향 푸트형, 로드측 플랜지형, 헤드측 1산클레비스형, 2산클레비스형 Basic Type, Foot Type of shaft direction, Rod-side Flange Type, Head-side Flange Type: single Thread CLEVIS Type, Double Thread CLEVIS Type
적용튜브내경 Applied inside-diameter of tube	Ø20, Ø25, Ø30, Ø40
행정 A,B Stroke A,B	A:0~25mm, B:0~50mm

>표시기호 Symbol



>외형 치수도/기본형 Outside Dimension Drawings/Basic Type



단위 unit:mm

I-D(mm)	MK	ØMB	KK	MH	ML	TL
20	8	20	M8X1.25	47	20	150
25	10	25	M10X1.25	49	22	156
30	10	25	M10X1.25	49	22	158
40	12	30	M14X1.50	60	22	198

※기타 표시하지 않은 치수는 ISS₂ 일반형과 동일

※Dimension which isn't indicated is same with general type of ISS₂ SERIES

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

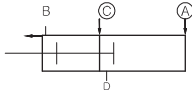
탠덤 실린더/내열용 실린더 Tandem Cylinder/Cylinder for Heat-Resist

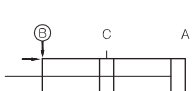
>형식표시방법 Indication of Model

ISS₂ TD 부착형식 Mounted Type 튜브내경 I-D(mm) × 행정 Stroke 선단금구 Rod-end

※ISS₂ 시리즈 일반형 형식 표기 방법 참조
Refer to method for indication of general type of ISS₂ series.
두 개의 실린더를 직렬로 연결한 실린더로 출력을 2배로 얻을 수 있다.
Connect two cylinder by series, then, can get twice more outputs.

>표시기호 Symbol

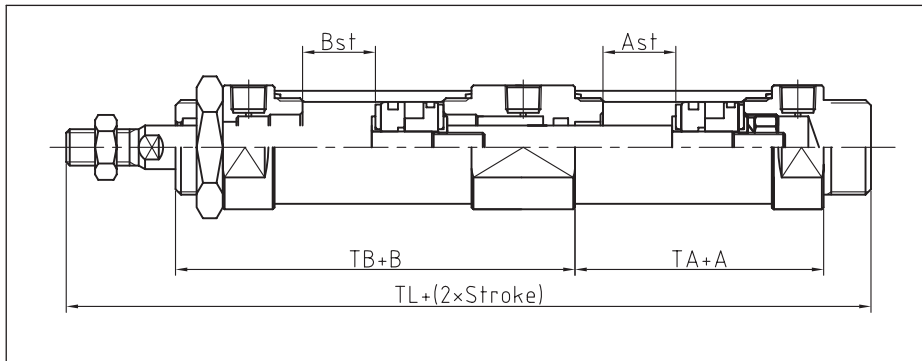
 ①③포트에 공기압을 공급하면 전진작동시 2배의 출력이 얻어진다.
When supply Air pressure to ①and ③Port, can get twice more outputs.

 ②포트에 공기압을 공급하여 후진작동시킨다.
When supply Air pressure to ②Port, Stroke works as backward motion.

>사양 Specification

형식 type	무급유형 Oilless Type
사용유체 Working Fluid	공기 Air
시험압력 Test Pressure	15kgf/cm ²
최고사용압력 Max. set pressure	9.9kgf/cm ²
최저사용압력 Min. set pressure	0.8kgf/cm ²
사용속도 Working Speed	50~750mm/sec
작동방식 Operating Type	복동 Double-acting
쿠션 Cushion	RUBBER Cushion
부착형식 Mounted Type	기본형, 푸트형, 플랜지형, 클레비스형 Basic Type, Foot Type of shaft direction Flange Type, CLEVIS Type
적용튜브내경 Applied inside-diameter of tube	Ø20, Ø25, Ø30, Ø40
행정 A,B Stroke A,B	~300mm

>외형 치수도/기본형 Outside Dimension Drawings/Basic Type



단위 unit:mm

I-D(mm)	TA	TB	TL
20	48	62	164
25	48	62	168
30	50	64	172
40	67	88	222

>내열용 실린더 Cylinder for Heat-Resist

ISS₂ SV 부착형식 Mounted Type 튜브내경 I-D(mm) × 행정 Stroke 선단금구 Rod-end

※150 까지 고온의 주위조건에서 사용가능하게 내열용 패킹류를 장착한 실린더
It is a Cylinder with packing type for Heat-Resist. Can use in the high-temperature situation to 150°C

>사양 Specification

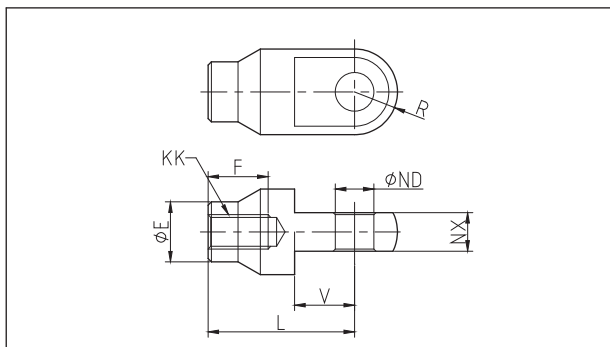
형식 Type	무급유형 Oilless Type
실린더 튜브내경 I-D of tube in cylinder(mm)	Ø20, Ø25, Ø30, Ø40
주위온도 Working Temperature	-20~+150°C
패킹재질 Packing Materials	VITON (Fluoric Rubber) 볼소고무

※오토스위치 부착은 제작 불가능
※Can't make mounted Auto-Switch

소형실린더 ISS₂ 시리즈 SMALL SIZE CYLINDER ISS2 SERIES

선단 금구 Rod-end Parts

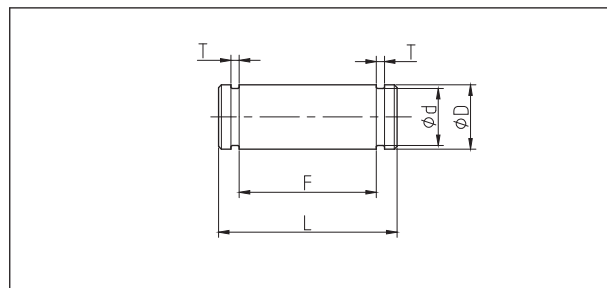
>1산 너클 조인트 Single-Thread Knuckle Joint



단위 unit:mm

I-D(mm)	F	ØE	L	KK	R	V	ØND	NX
20	16	20	36	M8X1.25	10	14	9 ^{+0.06} ₀	9 ^{-0.1} _{-0.2}
25,30	18	20	38	M10X1.25	10	14	9 ^{+0.06} ₀	9 ^{-0.1} _{-0.2}
40	22	24	55	M14X1.50	15.5	20	12 ^{+0.07} ₀	16 ^{-0.1} _{-0.3}

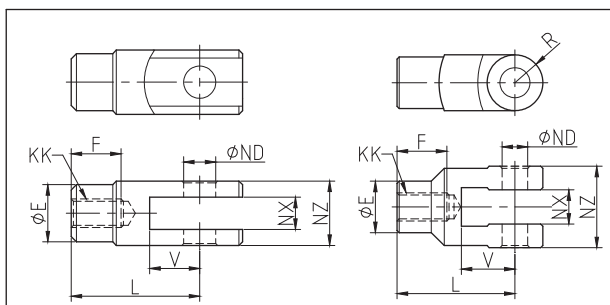
>클레비스용 핀 Pin for CLEVIS



단위 unit:mm

I-D(mm)	ØD	Ød	L	F	T	
2	9 ^{-0.04} _{-0.06}	8	25	19.2	1.15	
25,30	9 ^{-0.04} _{-0.06}	8	25	19.2	1.15	
40	10 ^{-0.04} _{-0.06}	9	36.5	30.2	1.3	YB용
40	12 ^{-0.04} _{-0.06}	11	44.5	38.2	1.3	Y용

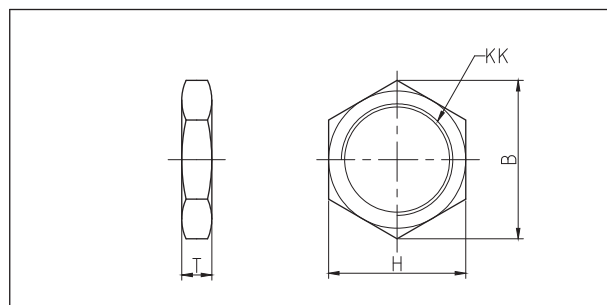
>2산 너클조인트 Double-Thread Knuckle Joint



단위 unit:mm

I-D(mm)	F	ØE	L	KK	R	V	ØND	NX	NZ
20	16	20	36	M8X1.25	12	14	9 ^{+0.06} ₀	9 ^{+0.2} _{-0.1}	18
25,30	18	20	38	M10X1.25	12	14	9 ^{+0.06} ₀	9 ^{+0.2} _{-0.1}	18
40	22	24	55	M14X1.50	13	25	12 ^{+0.09} ₀	16 ^{+0.3} _{-0.1}	38

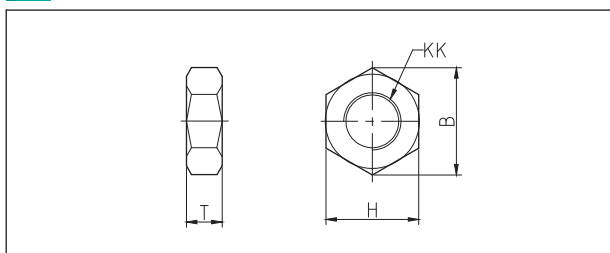
>부착용 너트 Mounted Nut



단위 unit:mm

I-D(mm)	KK	T	H	B
20	M20X1.5	7	26	30
25,30	M26X1.5	8	32	37
40	M32X2.0	8	41	47.3

>로크너트 Lock Nut



단위 unit:mm

I-D(mm)	KK	T	H	B
20	M8X1.25	5	13	15.0
25,30	M10X1.25	6	17	19.6
40	M14X1.50	8	22	25.4