



ISTC CO., LTD



Hydraulic Pneumatic Technology Products

중형실린더 ISM 시리즈

MID CYLINDER
ISM SERIES

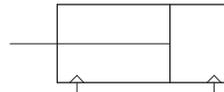


중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

일반형: Ø40, Ø50, Ø63, Ø80, Ø100 General Type : Ø40, Ø50, Ø63, Ø80, Ø100

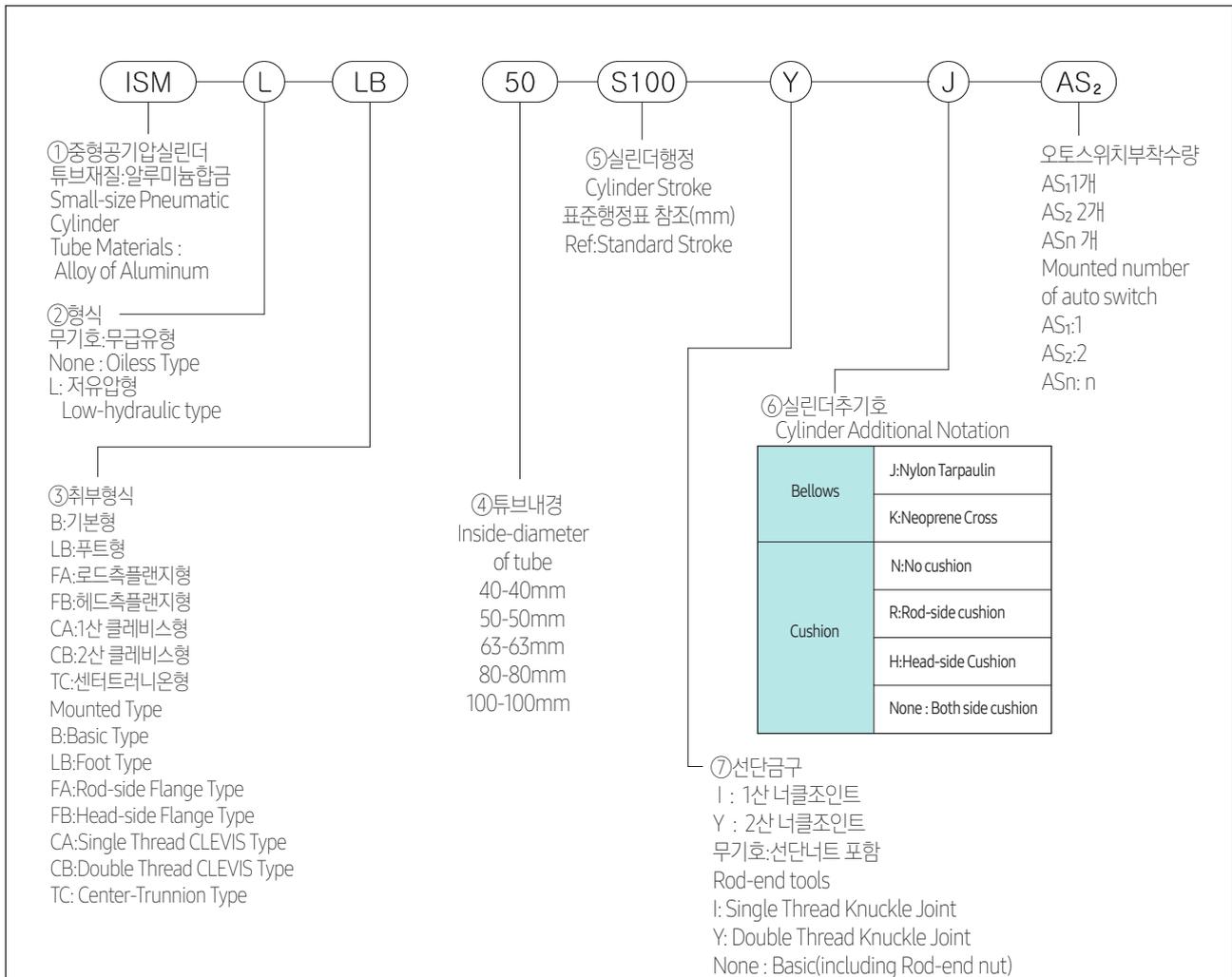


> 표시기호 Symbol



Double-acting
Single-rod

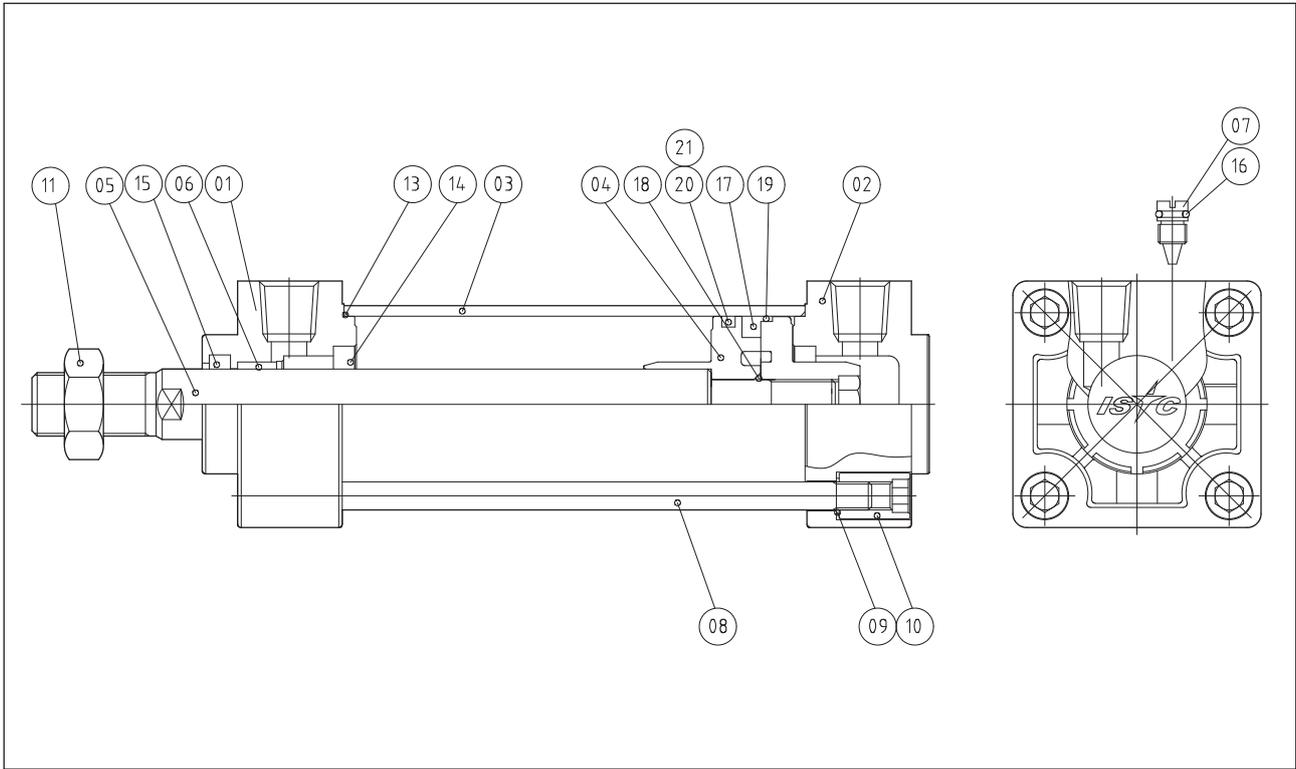
> 형식표시방법 Indication of Model



중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

내부구조도 Inside Structure Drawings

>내부구조도 Inside Structure Drawings



>부품리스트 Parts List

No	Parts Name	Materials	Remarks
1	ROD COVER	ADC12	
2	HEAD COVER	ADC12	
3	TUBE	A6063	
4	PISTON	DO1C	
5	ROD	S45C	
6	OILLESS	CU+OIL	
7	CUSHION NIDDLE	BSBM	
8	TIE ROD	S10C	
9	SPRING WASHER	SCM4	
10	TIE ROD NUT	S20C	
11	LOCK NUT	SS41	

>패킹리스트 Packing List

No	Parts Name	Materials	I-D(mm)				
			Ø40	Ø50	Ø63	Ø80	Ø100
13	TUBE O-RING	N	Ø26.5X2	Ø46.5X2	Ø59.5X2	Ø76.5X2	Ø96.5X2
14	CUSHION PACKING		CS 20	CS 24	CS24	CS30	CS35
15	ROD PACKING	B	DRP16	DRP20	DRP20	DRP25	DRP30
16	NIDDLE O-RING		S6	S6	S6	S6	S9
17	MAGNET	R	Ø40	Ø50	Ø63	Ø80	Ø100
18	ROD O-RING		S10	S14	S14	S16	S20
19	WEARING	AC	SWB40	SWB 50	SWB 63	SWB 80	SWB 100

>무급유형 Oilless Type

19	WEARING	AC	SBW 40	SBW 50	SBW 63	SBW 80	SWB 100
20	PISTON PACKING	NBR	OPA 40	OPA 50	OPA 63	OPA 80	OPA 100

>저유압형 Low Hydraulic Type

19	WEARING	AC	SBW 40	SBW 50	SBW 63	SBW 80	SWB 100
21	PISTON PACKING	NBR	HSD 40	HSD 50	HSD 63	HSD 80	HSD 100

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

형식 및 기타사양 Type and Others Specification

> 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	있음 Cushion	없음 None
나사공차 Screw Tolerance	KS2급 2nd KS Levell	
행정길이의 허용차 Allowance of stroke length	~250 ^{+1,0}	251~800 ^{+1,4}
취부형식 Mounted Type	Basic, Foot, Rod-side Flange, Head-side Flange, Single Thread CLEVIS, Double Thread CLEVIS, Center-Trunnion Type	

> 형식 Type

표시기호 Notation	형식 Type	작동방식 Operating Type	피스톤패킹 Piston packing	비고 Remarks
ISM	Oiless Type	Double-acting Type	Special packing	Basic Built-in type of Magnet
ISM L	Low-Hydraulic Type		Special packing	

> 선단금구 Rod-end Parts

취부형식 Mounted Type		Basic Type	Foot Type	Rod-side Flange Type	Head-side Flange Type	Single Thread CLEVIS Type	Double Thread CLEVIS Type	Center-side Trunnion Type
기본부착품 Basic Mounted-parts	로드선단너트 Rod-end Nut	●	●	●	●	●	●	●
	크레비스용 핀 Pin for CLEVIS		-	-	-	-	●	-
주문품 Special Order	1산너클조인트 Single Knuckle Joint	●	●	●	●	●	●	●
	2산너클조인트(핀포함) Double Knuckle Joint(Including Pin)	●	●	●	●	●	●	●
	벨로우즈 Bellows	●	●	●	●	●	●	●

> 취부부품 형식 Mounted Type

I-D(mm)	40	50	63	80	100
선단금구 Rod-end					
Foot Type	ISM-LB40	ISM-LB50	ISM-LB63	ISM-LB80	ISM-LB100
Flange Type	ISM-F40	ISM-F50	ISM-F63	ISM-F80	ISM-F100
Single Thread CLEVIS Type (Including Pin)	ISM-CA40	ISM-CA50	ISM-CA63	ISM-CA80	ISM-CA100
Double Thread CLEVIS Type (Including Pin)	ISM-CB40	ISM-CB50	ISM-CB63	ISM-CB80	ISM-CB100

※푸트 금구 주문시 1대분의 경우 2개를 주문할 것
Should order two Foot for one machine

> 선단금구 형식 Rod-end Type

I-D(mm)	40	50,63	80	100
선단금구 Rod-end				
1산너클조인트 Single Knuckle Joint	ISM-40 I	ISM-50,63 I	ISM-80 I	ISM-100 I
2산너클조인트(핀포함) Double Knuckle Joint(Including Pin)	ISM-40 Y	ISM-50,63 Y	ISM-80 Y	ISM-100 Y

> 표준행정표 Standard Stroke Table

I-D(mm)	Standard Stroke
∅40	25,50,75,100,125,150,175,200,250,300,350,400,450,500
∅50	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
∅63	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
∅80	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,800
∅100	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,800

> 벨로우즈 재질 사용온도

Working Temperature of Bellows Materials

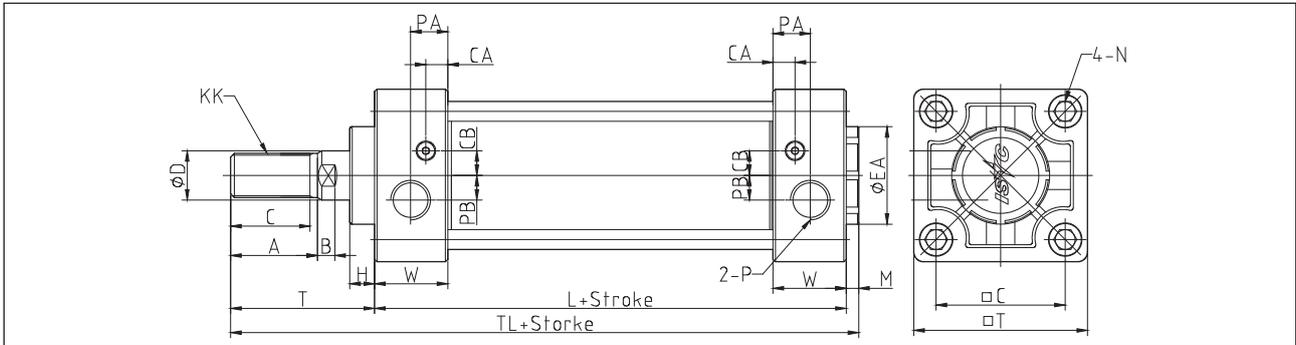
표시기호 Notation	벨로우즈 재질 Bellows Materials	최고주위온도 Max. Ambient Temperature
J	Nylon Tauplin	60°C
K	Neoprene Cross	110°C

공기압 참고자료
공기압 도면기호
박형 실린더
소형 실린더
중형 실린더
대형 실린더
오토 스위치
가이드부착 실린더
부스터 실린더
유압실린더 시리즈

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

일반형(B, LB) General Type(B, LB)

>기본형(B) Basic Type(B) ■ Oilless Type ISM -B, Low Hydraulic Type ISM L-B

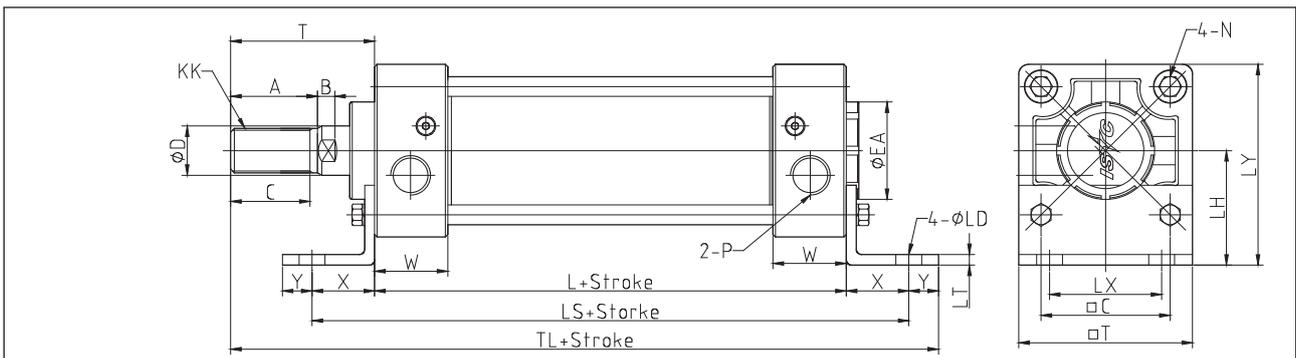


단위 unit:mm

I-D(mm)	Stroke Range	C	A	B	□C	□T	ØD	ØEA	H	KK	L	N	P(PT)	PA	PB
40	~500	27	30	8	44	61	16	31.5	10	M14XP1.5	84	M8XP1.25	1/4	11	7
50	~600	32	35	10	52	70	20	39.5	10	M18XP1.5	90	M8XP1.25	3/8	12	8
63	~600	32	35	10	64	83	20	39.5	10	M18XP1.5	98	M8XP1.25	3/8	13	11.5
80	~800	37	40	12	78	102	25	51.5	14	M22XP1.5	116	M12XP1.75	1/2	16	12
100	~800	37	40	12	92	116	30	51.5	14	M26XP1.5	126	M12XP1.75	1/2	16	12

I-D(mm)	W	T	TL	M	CA	CB
40	26	51	140.5	5.5	6	8
50	28	58	153.5	5.5	7.5	10
63	29	58	161	5.5	8	10
80	37	71	192	5.5	10	12
100	40	72	203	5.5	10	12

>푸트형(LB) Foot Type ■ Oilless Type ISM -LB, Low Hydraulic Type ISM L-LB



단위 unit:mm

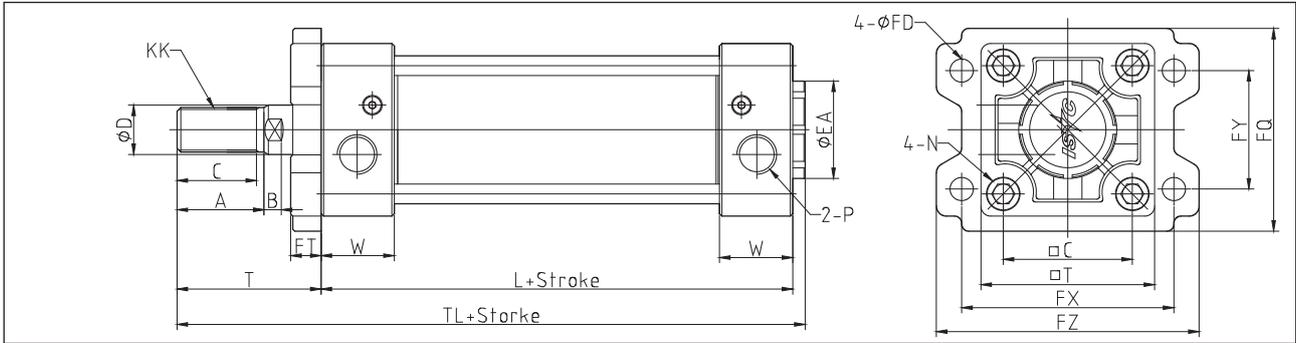
I-D(mm)	Stroke Range	C	A	B	□C	□T	ØD	ØEA	H	KK	L	N	P(PT)	T	TL
40	~500	27	30	8	44	61	16	31.5	10	M14XP1.5	84	M8XP1.25	1/4	51	175
50	~600	32	35	10	52	70	20	39.5	10	M18XP1.5	90	M8XP1.25	3/8	58	188
63	~600	32	35	10	64	83	20	39.5	10	M18XP1.5	98	M8XP1.25	3/8	58	205.5
80	~800	37	40	12	78	102	25	51.5	14	M22XP1.5	116	M12XP1.75	1/2	71	246.5
100	~800	37	40	12	92	116	30	51.5	14	M26XP1.5	126	M12XP1.75	1/2	72	257.5

I-D(mm)	W	ØLD	LH	LS	LT	LX	LY	X	Y
40	26	9.0	40	138	3	42	70	27	13
50	28	9.0	45	144	3	50	80	27	13
63	29	11.5	50	165.5	3	59	93	34	16
80	37	13.5	65	203.5	5	76	116	44	16
100	39	13.5	75	211.5	5	92	133	43	17

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

일반형(FA, FB) General Type(FA, FB)

>로드측 플렌지형(FA) Rod-side Flange Type(FA) ■ Oilless Type ISM -FA, Low Hydraulic Type ISM L-FA

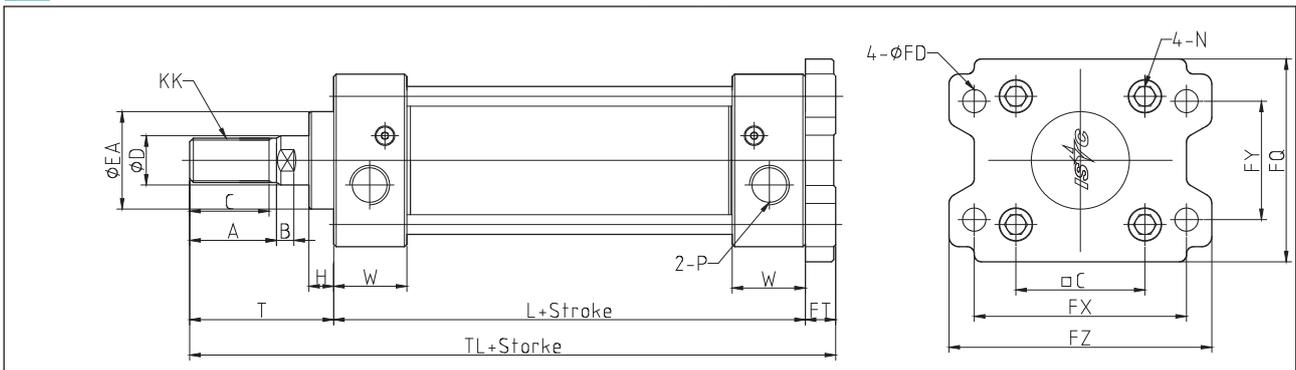


단위 unit:mm

I-D(mm)	Stroke Range	C	A	B	□C	□T	ØD	ØEA	KK	L	N	P(PT)	T	TL
40	~800	27	30	8	44	61	16	31.5	M14XP1.5	84	M8XP1.25	1/4	51	140.5
50	~1000	32	35	10	52	70	20	39.5	M18XP1.5	90	M8XP1.25	3/8	58	153.5
63	~1000	32	35	10	64	83	20	39.5	M18XP1.5	98	M8XP1.25	3/8	58	161
80	~1000	37	40	12	78	102	25	51.5	M22XP1.5	116	M12XP1.75	1/2	71	192
100	~1000	37	40	12	92	116	30	51.5	M26XP1.5	126	M12XP1.75	1/2	72	203

I-D(mm)	W	ØFD	FQ	FT	FX	FY	FZ
40	26	9	71	12	80	42	100
50	28	9	81	12	90	50	110
63	29	11.5	101	15	105	59	130
80	37	13.5	119	18	130	76	160
100	39	13.5	133	18	150	92	180

>헤드측 플렌지형(FB) Head-side Flange Type(FB) ■ Oilless Type ISM -FB, Low Hydraulic Type ISM L-FB



단위 unit:mm

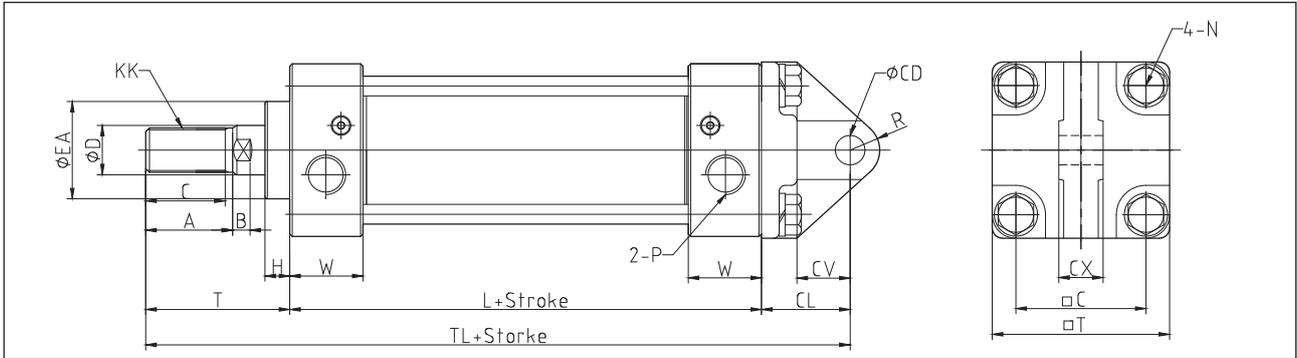
I-D(mm)	Stroke Range	C	A	B	□C	ØD	ØEA	H	KK	L	N	P(PT)	T	TL
40	~500	27	30	8	44	16	31.5	10	M14XP1.5	84	M8XP1.25	1/4	51	147
50	~600	32	35	10	52	20	39.5	10	M18XP1.5	90	M8XP1.25	3/8	58	160
63	~600	32	35	10	64	20	39.5	10	M18XP1.5	98	M8XP1.25	3/8	58	170.5
80	~800	37	40	12	78	25	51.5	14	M22XP1.5	116	M12XP1.75	1/2	71	204.5
100	~800	37	40	12	92	30	51.5	14	M26XP1.5	126	M12XP1.75	1/2	72	215.5

I-D(mm)	W	ØFD	FQ	FT	FV	FX	FY	FZ
40	26	9	71	12	60	80	42	100
50	28	9	81	12	70	90	50	110
63	29	11.5	101	15	86	105	59	130
80	37	13.5	119	18	102	130	76	160
100	39	13.5	133	18	116	150	92	180

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

일반형(CA, CB) General Type(CA, CB)

>1산 클레비스형(CA) Single-Thread CLEVIS Type(CA) ■ Oilless Type ISM -CA, Low Hydraulic Type ISM L-CA

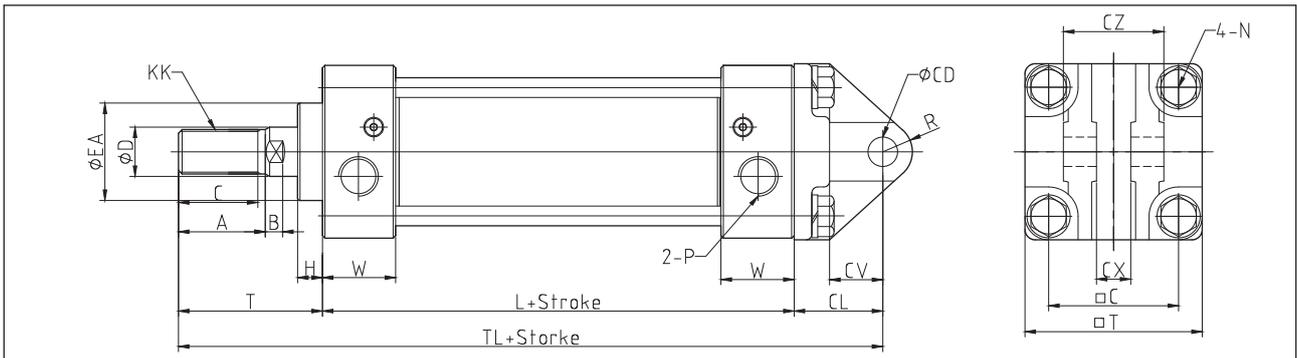


단위 unit :mm

I-D(mm)	Stroke Range	C	A	B	□C	□T	ØD	ØEA	H	KK	L	N	P(PT)	T	TL
40	~500	27	30	8	44	61	16	31.5	10	M14XP1.5	84	M8XP1.25	1/4	51	165
50	~600	32	35	10	52	70	20	39.5	10	M18XP1.5	90	M8XP1.25	3/8	58	183
63	~600	32	35	10	64	83	20	39.5	10	M18XP1.5	98	M8XP1.25	3/8	58	195.5
80	~800	37	40	12	78	102	25	51.5	14	M22XP1.5	116	M12XP1.75	1/2	71	234.5
100	~800	37	40	12	92	116	30	51.5	14	M26XP1.5	126	M12XP1.75	1/2	72	255.5

I-D(mm)	W	ØCD	CL	CV	CX	R
40	26	10 ^{+0.055} ₀	30	18	15 ^{-0.1} _{-0.3}	10
50	28	12 ^{+0.070} ₀	35	23	18 ^{-0.1} _{-0.3}	12
63	29	16 ^{+0.070} ₀	40	27	25 ^{-0.1} _{-0.3}	16
80	37	20 ^{+0.085} ₀	48	34	31.5 ^{-0.1} _{-0.3}	20
100	39	25 ^{+0.085} ₀	58	43	35.5 ^{-0.1} _{-0.3}	25

>2산 클레비스형(CB) Double-Thread CLEVIS Type(CB) ■ Oilless Type ISM -CB, Low Hydraulic Type ISM L-CB



단위 unit :mm

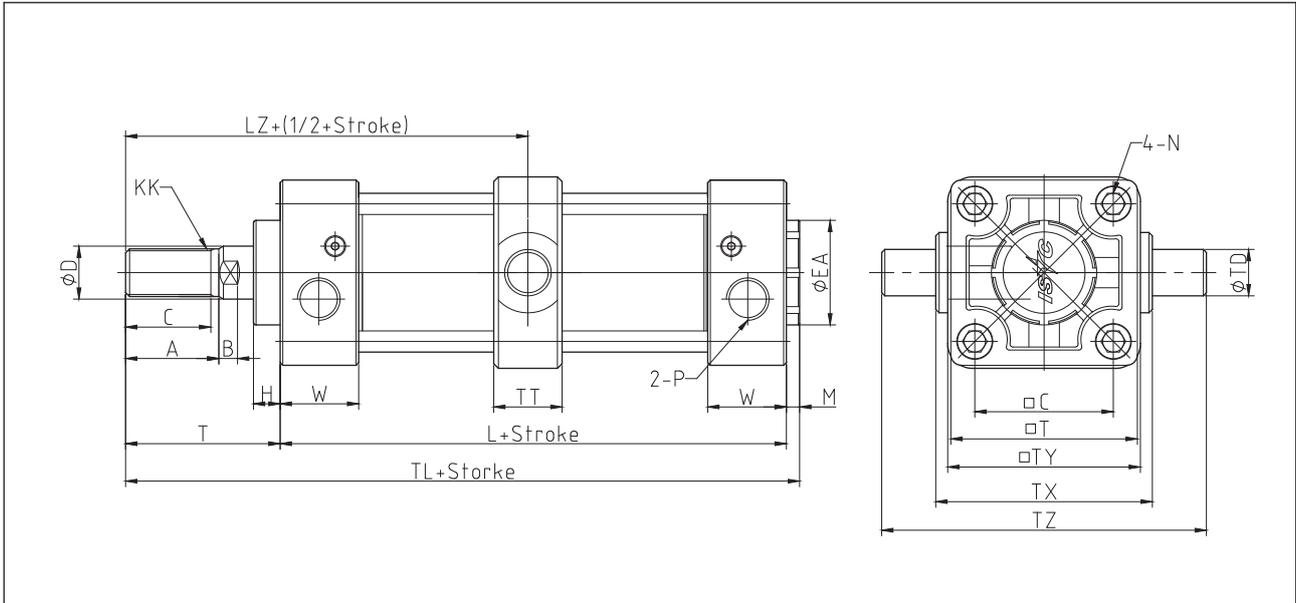
I-D(mm)	Stroke Range	C	A	B	□C	□T	ØD	ØEA	H	KK	L	N	P(PT)	T	TL
40	~500	27	30	8	44	61	16	31.5	10	M14XP1.5	84	M8XP1.25	1/4	51	165
50	~600	32	35	10	52	70	20	39.5	10	M18XP1.5	90	M8XP1.25	3/8	58	183
63	~600	32	35	10	64	83	20	39.5	10	M18XP1.5	98	M8XP1.25	3/8	58	196
80	~800	37	40	12	78	102	25	51.5	14	M22XP1.5	116	M12XP1.75	1/2	71	235
100	~800	37	40	12	92	116	30	51.5	14	M26XP1.5	126	M12XP1.75	1/2	72	256

I-D(mm)	W	ØCD	CL	CV	CX	CZ	R
40	26	10 ^{+0.055} ₀	30	18	15	29.5	10
50	28	12 ^{+0.070} ₀	35	23	18	38	12
63	29	16 ^{+0.070} ₀	40	27	25	49	16
80	37	20 ^{+0.085} ₀	48	34	31.5	61	20
100	39	25 ^{+0.085} ₀	58	43	35.5	64	25

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

일반형(TC) General Type(TC)

> 센터트리니언형(TC) Center Trinion Type(TC) ■ Oilless Type ISM-TC, Low Hydraulic Type ISM L-TC



단위 unit:mm

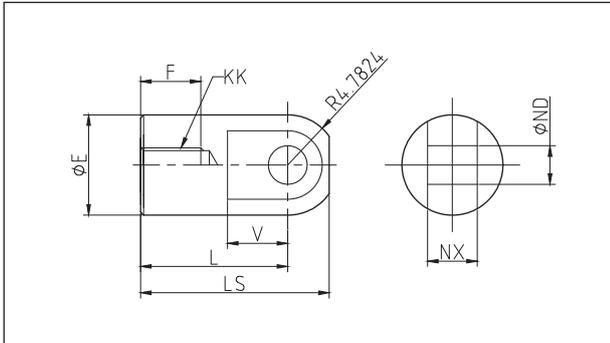
I-D(mm)	Stroke Range	C	A	B	□C	□T	ØD	ØEA	H	KK	L	N	P(PT)	T	TL
40	~500	27	30	8	44	61	16	31.5	10	M14XP1.5	84	M8XP1.25	1/4	51	140.5
50	~600	32	35	10	52	70	20	39.5	10	M18XP1.5	90	M8XP1.25	3/8	58	153.5
63	~600	32	35	10	64	83	20	39.5	10	M18XP1.5	98	M8XP1.25	3/8	58	161
80	~800	37	40	12	78	102	25	51.5	14	M22XP1.5	116	M12XP1.75	1/2	71	192
100	~800	37	40	12	92	116	30	51.5	14	M26XP1.5	126	M12XP1.75	1/2	72	203

I-D(mm)	W	ØTD	TT	TX	□TY	TZ	LZ	M
40	26	15 ^{-0.032} _{-0.059}	22	85	62	117	93	5.5
50	28	15 ^{-0.032} _{-0.059}	22	95	74	127	103	5.5
63	29	18 ^{-0.032} _{-0.059}	28	110	90	148	107	5.5
80	37	25 ^{-0.04} _{-0.073}	34	140	110	192	129	5.5
100	39	25 ^{-0.04} _{-0.073}	40	162	130	214	135	5.5

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

선단금구 Rod-end Parts

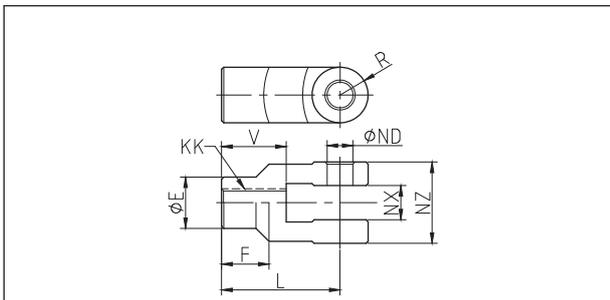
>1산 너클 조인트 Single-Thread Knuckle Joint



단위 unit:mm

I-D(mm)	F	ØE	L	KK	R	V	ØND	LS	NX
40	22	24	55	M14*1.5	15.5	20	12 ^{+0.07} / ₀	69	16 ^{-0.1} / _{-0.3}
50,63	27	28	60	M18*1.5	15.5	20	12 ^{+0.07} / ₀	74	16 ^{-0.1} / _{-0.3}
80	37	36	71	M22*1.5	22.5	26	18 ^{+0.07} / ₀	91	28 ^{-0.1} / _{-0.3}
100	37	40	83	M26*1.5	24.5	28	20 ^{+0.08} / ₀	105	30 ^{-0.1} / _{-0.3}

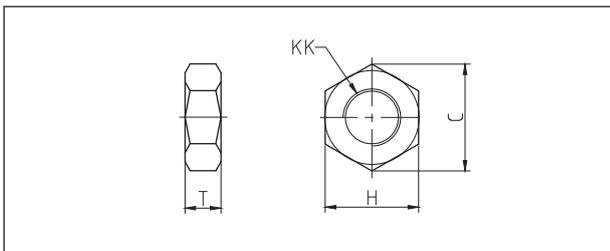
>2산 너클조인트 Double-Thread Knuckle Joint



단위 unit:mm

I-D(mm)	F	ØE	L	KK	R	V	ØND	NX	NZ
40	22	24	55	M14*1.5	13	30	12 ^{+0.07} / ₀	16 ^{+0.3} / _{+0.1}	38
50,63	27	28	60	M18*1.5	15	33	12 ^{+0.07} / ₀	16 ^{+0.3} / _{+0.1}	38
80	37	36	71	M22*1.5	19	43	18 ^{+0.07} / ₀	28 ^{+0.3} / _{+0.1}	55
100	37	40	83	M26*1.5	21	45	20 ^{+0.08} / ₀	30 ^{+0.3} / _{+0.1}	61

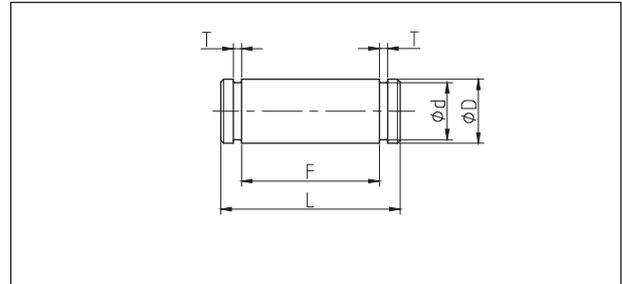
>로크너트 Lock nut



단위 unit:mm

I-D(mm)	KK	T	H	C
40	M14*1.5	8	22	25.4
50,63	M18*1.5	11	27	31.4
80	M22*1.5	13	32	37
100	M26*1.5	16	41	47.3

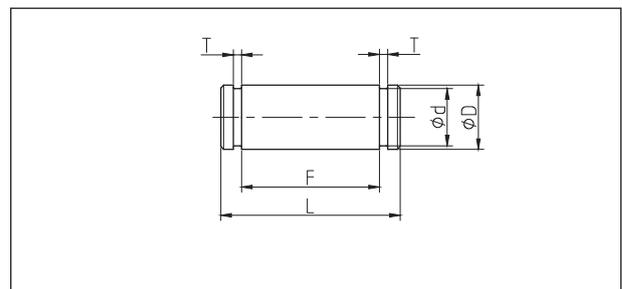
>클레비스용 핀 Pin for CLEVIS



단위 unit:mm

I-D(mm)	ØD	Ød	L	F	T
40	10 ^{-0.04} / _{-0.08}	9	35.8	29.7	1.15
50	12 ^{-0.04} / _{-0.08}	11	44.3	38.2	1.15
63	16 ^{-0.05} / _{-0.09}	14.5	55.3	49.2	1.15
80	20 ^{-0.06} / _{-0.11}	18.5	68.2	61.2	1.35
100	25 ^{-0.06} / _{-0.11}	23	71.2	64.2	1.35

>너클 조인트 핀 Knuckle Joint Pin



단위 unit:mm

I-D(mm)	ØD	Ød	L	F	T
40,50,63	12 ^{-0.05} / _{-0.09}	11	44.3	38.2	1.15
80	18 ^{-0.05} / _{-0.09}	16.5	62.2	55.2	1.35
100	20 ^{-0.06} / _{-0.12}	18.5	68.2	61.2	1.35

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

양로드형 Double-rod Type

>형식표시방법 Indication of Model

ISM W 부착형식 Mounted Type 튜브내경 I-D(mm) 행정 Stroke 선단금구 Rod-end

※ISM 시리즈 일반형 형식 표기 방법 참조
Refer to General type of ISM SERIES.

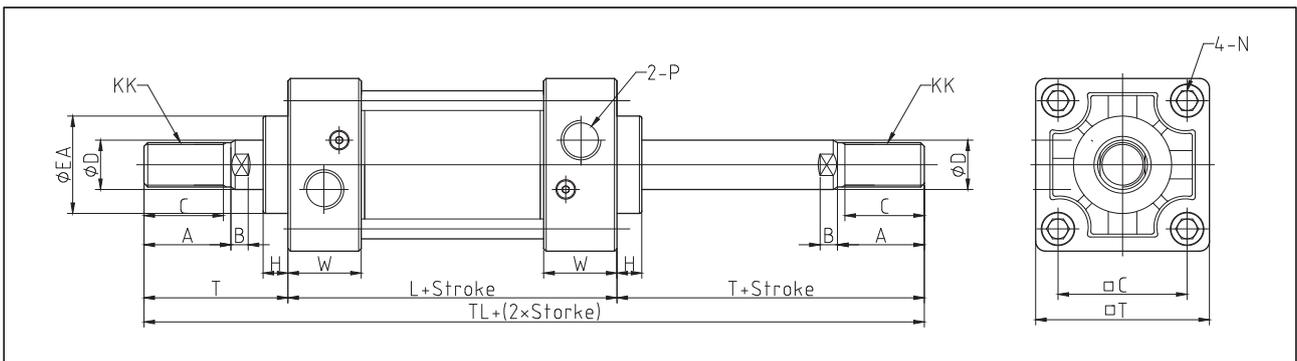
>표준행정표 Standard Stroke Table

I-D(mm)	표준행정 Standard Stroke
40	25,50,75,100,125,150,175,200,250,300,350,400,450,500
50	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
63	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
80	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,800
100	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,800

>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. Working Pressur	9.9kgf/cm ²	
최저사용압력 Min. Working Pressure	0.5kgf/cm ²	1.0kgf/cm ²
사용피스톤속도 Working Piston Speed	50~500mm/sec	0.5~300mm/sec
사용온도 Working Temperature	-10~70°C	
쿠션 Cushion	양측 Both-Side	없음 None
나사공차 Screw Tolerance	KS 2급 2nd KS Level	
행정길이의허용차 Allowance of Stroke Length	~250 ⁺⁰	251~800 ^{+0.4}
취부형식 Mounted Type	Basic, Foot, Flange, Center Trinion Type	

>외형 치수도/기본형 Outside Dimension Drawings/Basic Type



단위 unit:mm

I-D(mm)	Stroke Range	C	A	B	ØD	H	KK	L	N	P(PT)	□C	□T	W	T
40	~500	27	30	8	16	10	M14XP1.5	84	M8XP1.25	1/4	44	61	26	51
50	~600	32	35	10	20	10	M18XP1.5	90	M8XP1.25	3/8	52	70	28	58
63	~600	32	35	10	20	10	M18XP1.5	98	M8XP1.25	3/8	64	83	29	58
80	~800	37	40	12	25	14	M22XP1.5	116	M12XP1.75	1/2	78	102	37	71
100	~800	37	40	12	30	14	M26XP1.5	126	M12XP1.75	1/2	92	116	39	72

I-D(mm)	TL	ØEA				
40	186	31.5				
50	206	39.5				
63	213.5	39.5				
80	257.5	51.5				
100	269.5	51.5				

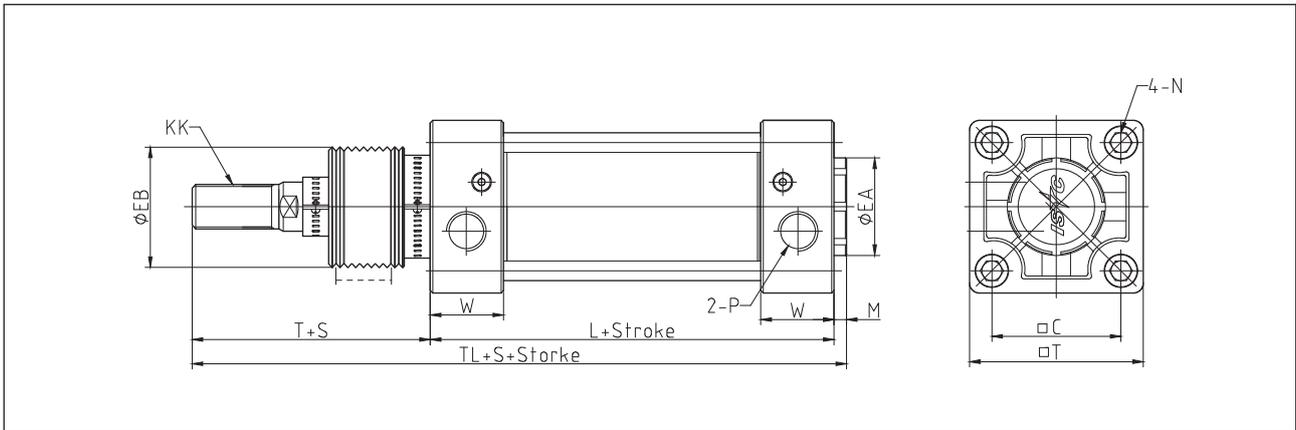
중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

벨로우즈 부착형 Bellows-Mounted Type

>형식표시방법 Indication of Model

ISM J **취부형식 Mounted Type** **튜브내경 I-D(mm)** **행정 Stroke** **선단금구 Rod-end**

J: 나이론 타폴린60°C Nylon Tarpaulin
 J: 네오프렌크로스60°C Neoprene Cross



단위 unit :mm

I-D(mm)	Stroke Range	□C	□T	ØEA	KK	L	N	P(PT)	TL	M	W	ØEB	S	T
40	20~500	44	61	31.5	M14XP1.5	84	M8XP1.25	1/4	148.5	5.5	26	43	1/4	59
50	20~600	52	70	39.5	M18XP1.5	90	M8XP1.25	3/8	161.5	5.5	28	52		66
63	20~600	64	83	39.5	M18XP1.5	97.5	M8XP1.25	3/8	169	5.5	29	52		66
80	20~800	78	102	51.5	M22XP1.5	115.5	M12XP1.75	1/2	201	5.5	37	65		80
100	20~800	92	116	51.5	M26XP1.5	125.5	M12XP1.75	1/2	212	5.5	39	65		81

※기타 표기하지 않은 치수는 ISM 일반형과 동일
 ※The other numbers is same as general ISM series.

- 공기압 힘고저용
- 공기압 도면기호
- 박형 실린더
- 소형 실린더
- 중형 실린더
- 대형 실린더
- 오토 스위치
- 가이드부착 실린더
- 부스터 실린더
- 유압실린더 시리즈

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

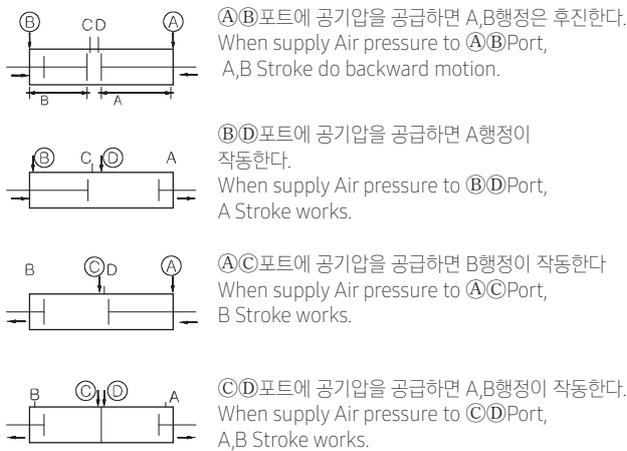
다단 행정 양로드형 Multiple Stroke Double-rod Type

>형식표시방법 Indication of Model



※ISM 시리즈 일반형 형식 표기 방법 참조
Refer to General type of ISM SERIES

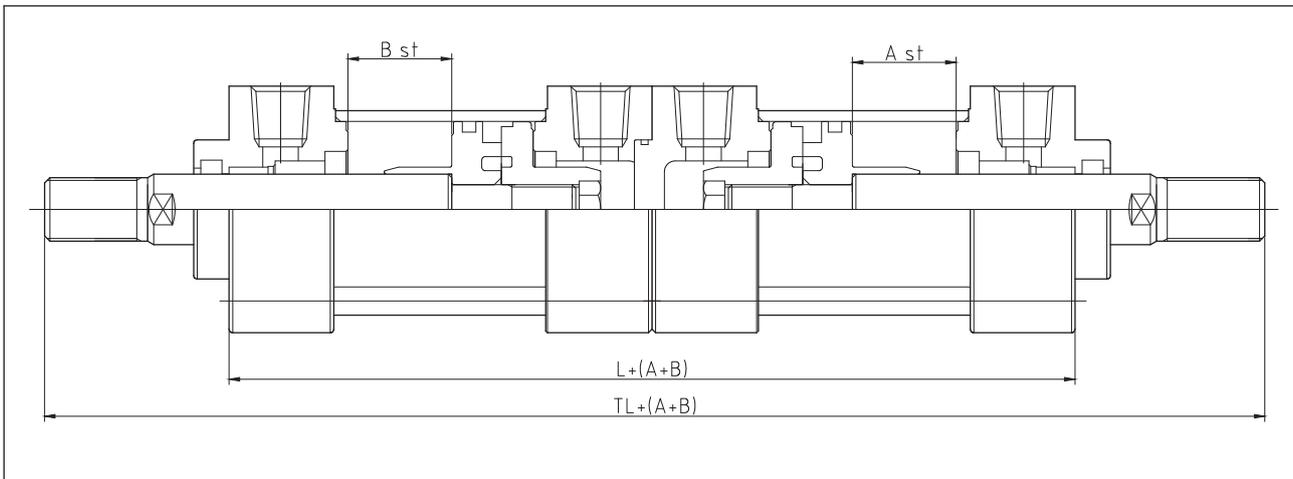
>표시기호 Symbol



>사양 Specification

형식 Type	무급유형 Oilless type
사용유체 Working Fluid	공기 Air
시험압력 Test Pressure	15kgf/cm ²
최고사용압력 Max. Working Pressur	9.9kgf/cm ²
최저사용압력 Min. Working Pressure	0.5kgf/cm ²
피스톤속도 Piston Speed	50~500mm/sec
작동방식 Operating Type	복동 Double-acting
쿠션 Cushion	없음 None
부착형식 Mounted Type	Basic Type, Foot Type of shaft direction, Flange Type
적용튜브내경 Applied Inside-diameter of tube	Ø40, Ø50, Ø63, Ø80, Ø100

>구조 외형 치수도/기본형 Outside Structure Dimension Drawings/Basic Type



단위 unit:mm

I-D(mm)	L	TL
40	168	270
50	180	296
63	195	311
80	252	373
100	252	395

※기타 표기하지 않은 치수는 ISM 일반형과 동일
※The other numbers is same as general ISM series.

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

다단 행정 편로드형 Multiple Stroke Single-rod Type

>형식표시방법 Indication of Model

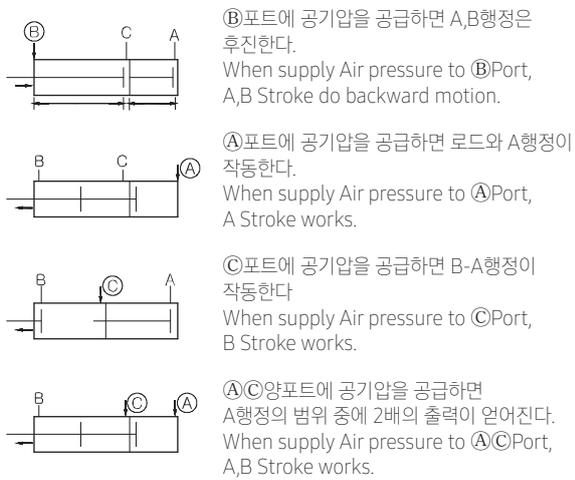


※ISM 시리즈 일반형 형식 표기 방법 참조 Refer to General type of ISM SERIES.

※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.

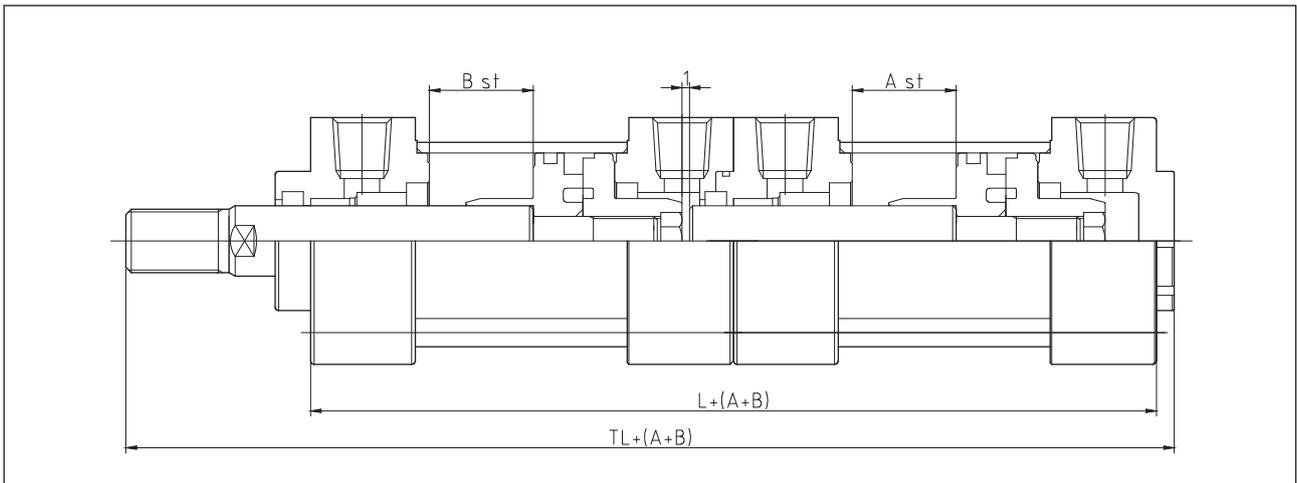
>표시기호 Symbol



>사양 Specification

형식 Type	무급유형 Oilless type
사용유체 Working Fluid	공기 Air
시험압력 Test Pressure	15kgf/cm ²
최고사용압력 Max. Working Pressur	9.9kgf/cm ²
최저사용압력 Min. Working Pressure	0.5kgf/cm ²
피스톤속도 Piston Speed	50~500mm/sec
작동방식 Operating Type	복동 Double-acting
쿠션 Cushion	없음 None
부착형식 Mounted Type	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	∅40, ∅50, ∅63, ∅80, ∅100

>구조 외형 치수도/기본형 Outside Structure Dimension Drawings/Basic Type



단위 unit:mm

I-D(mm)	L	TL
40	168	224.5
50	180	243.5
63	195	258.5
80	231	307.5
100	251	328.5

※기타 표시하지 않은 치수는 ISM 일반형과 동일

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

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

가변 행정 실린더형 Control Stroke Cylinder Type/Control type of Forward Motion

>형식표시방법 Indication of Model



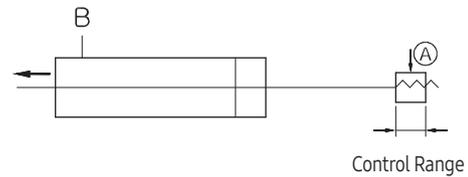
※ISM 시리즈 일반형 형식 표기 방법 참조 Refer to General type of ISM SERIES. 실린더 전진시 행정을 전체 행정에서 0~25, 0-50mm까지 가변조정 가능, 헤드측에 행정조정기구를 부착하여 전진시의 행정을 조정한다. Can control variably Stroke at Cylinder Forward-motion from whole stroke to 0~25mm(A), 0-50mm(B).

A: 행정조정범위 Stroke Control Range 0~25m/m
B: 행정조정범위 Stroke Control Range 0~50m/m

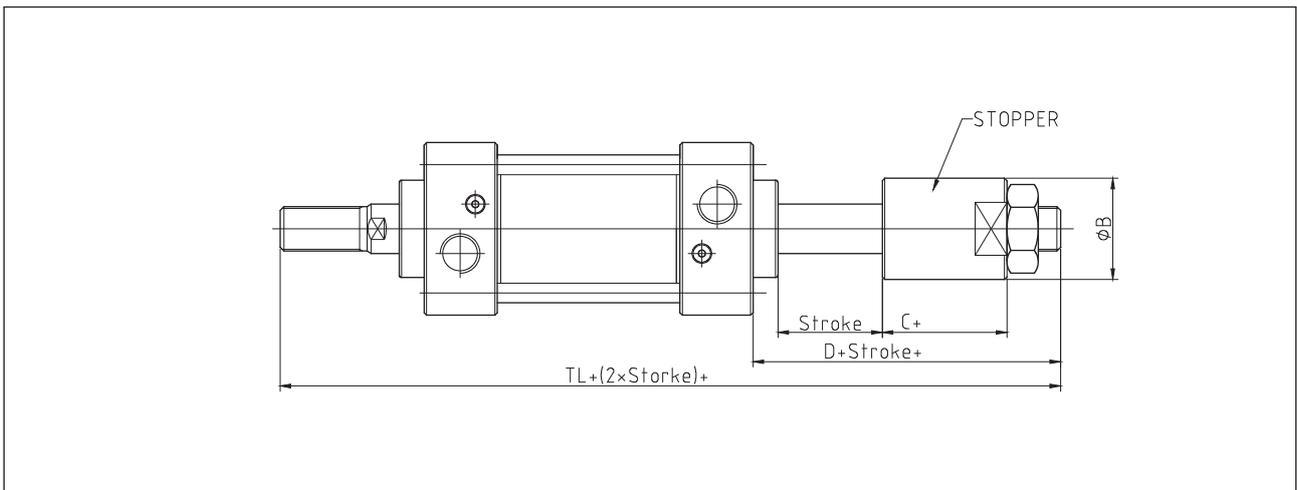
>사양 Specification

형식 Type	무급유형 Oilless Type	저유압형 Low-Hydraulic Type
작동방식 Operating Type	복동 Double-acting	
사용유체 Fluid	공기 Air	유압작동유 Hydraulic Working Oil
시험압력 Test Pressure	15kgf/cm ²	
최고사용압력 Max. Working Pressur	9.9kgf/cm ²	
최저사용압력 Min. Working Pressure	0.5kgf/cm ²	1.0kgf/cm ²
사용속도 Working Speed	50~500mm/s	0.5~300mm/s
행정조정범위 Stroke Control Range	A: 0~25mm, B: 0~50mm	
취부형식 Mounted Type	Basic Type, Foot Type, Rod-side Flange Type	

>표시기호 Symbol



>외형 치수도/기본형 Outside Dimension Drawings/Basic Type



단위 unit:mm

I-D(mm)	ØB	C	D	TL
40	Ø30	22	46	181
50		28	58	206
63	Ø40	28	58	213.5
80		35	71	257.5
100		35	72	269.5

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

중형실린더 ISM 시리즈 MID CYLINDER ISM SERIES

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

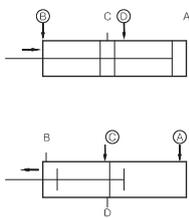
>형식표시방법 Indication of Model



※ISM 시리즈 일반형 형식 표기 방법 참조 Refer to method for indication of general type of ISM 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

■ 기능 Function



②④포트에 공기압을 공급하면 후진작동시 2배의 출력이 얻어진다.
 When supply Air pressure to ②and ④Port, can get twice more outputs at backward motion.

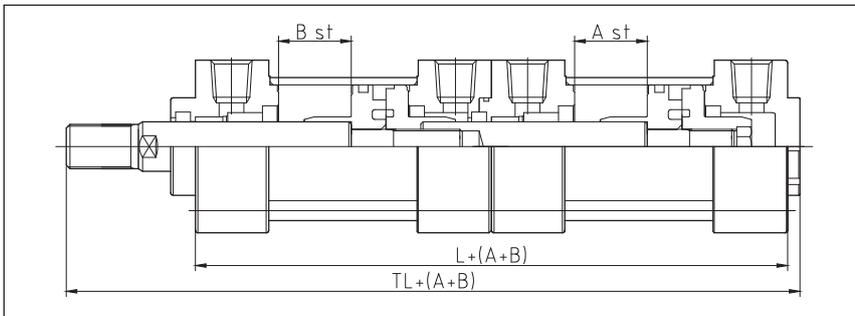
①③포트에 공기압을 공급하면, 후진작동시 2배의 출력이 얻어진다.
 When supply Air pressure to ①and ③Port, can get twice more outputs at forward motion.

>사양 Specification

형식 Type	무급유형 Oilless type
실린더내경 I-D of Cylinder	∅40, ∅50, ∅63, ∅80, ∅100
최고사용압력 Max. Working Pressur	9.9kgf/cm ²
최저사용압력 Min. Working Pressure	1kgf/cm ²
쿠션 Cushion	쿠션 Cushion
작동방식 Operating Type	복동 Double-acting
사용유체 Working Fluid	공기 Air
사용속도 Working Speed	50~500mm/s
취부형식 Mounted Type	Basic Type, Foot Type, Rod-side Flange Type, Head-side Flange Type, single Thread CLEVIS Type, Double Thread CLEVIS Type

>외형 치수도/기본형

Outside Dimension Drawings/Basic Type



단위 unit:mm

I-D(mm)	L	TL
40	168	224.5
50	180	243.5
63	195	258.5
80	231	307.5
100	251	328.5

■ 내열용 실린더 Cylinder for Heat-Resist



※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.

■ 피스톤 로드 스테인레스 Piston-rod Stainless



※피스톤 로드의 끝단이 전진시 물에침수 등으로 이해서 부식의 우려가 있는 경우에 사용
 ※Use this when the Rod-end will be rusted by flooding at forward motion.

>사양 Specification

단위 unit:mm

Type	Oil Supply Type
I-D(mm)	∅40, ∅50, ∅63, ∅80, ∅100
Working Temperature	-20~+150°C
Packing Materials	VITON (Fluoric Rubber)

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

>사양 Specification

단위 unit:mm

Type	Oil Supply Type
I-D(mm)	∅40, ∅50, ∅63, ∅80, ∅100
Piston Rod	Stainless (SUS 304)