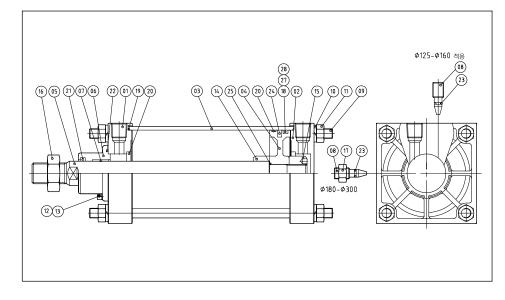
내부 구조도 Inside Structure Drawings

내부 구조도 Inside Structure Drawings



부품리스트 Parts List

No	Name	Materials	Remarks
		AC4C	Ø125~Ø160
1	ROD COVER	FCD	Ø180~Ø200
		SS41	Ø250~Ø300
2	HEAD COVER	AC4C	Ø125~Ø160
2	HEAD COVER	Ø180~Ø300	
3	TURE	A6063	Ø125~Ø160
3	TUBE	STKM13C	Ø180~Ø300
4	PISTON	AC4C	Ø125~Ø160
4	PISTON	SS41	Ø180~Ø300
5	ROD	S45C	
6	SUB BLOCK	FC20	
7	BUSH	DU	
8	CUSHION NIDDLE	BSBM	
9	TIE ROD	SS41	
10	SPRING WASHER	SS41	
11	TIE ROD NUT	S20C	
12	SUB BLOCK BOLT	SCM4	
13	" WASHER	SCM4	
14	CUSHION RING(R)	SS41	
15	CUSHION RING(H)	SS41	
16	ROD NUT	SS41	
17	CUSHION NUT	S20C	

No	Name	Mate		-		ΗD	(mm)			
	- tainte	rials	125	140	150	160	180	200	250	300
급위	유형 Oil S	Sup	ply [·]	Тур	Э					
18	PISTON PACKING		AP115	AP130	AP140	AP150	AP165	AP185	AP235	AP285
19	TUBE O-RING	Ν	Ø125+ S125	Ø140+ S140	Ø150+ S150	Ø160+ S160	Ø180+ S180	Ø200+ S200	Ø250+ S250	Ø300+ S300
20	CUSHION PACKING		PCS50	PCS50	PCS55	PCS55	PCS60	PCS60	PCS75	PCS80
21	ROD PACKING	в	DRP35	DRP35	DRP40	DRP40	DRP45	DRP50	DRP60	DRP70
22	BUSH O-RING	-	AP56	AP56	AP58	AP58	AP63	AP67	AP80	AP85
23	NIDOLE O-RING		P9	P9	P9	P9	P9	P9	P9	P9
24	MAGNET	R	Ø125	Ø140	Ø150	Ø160	-		-	-
25	ROD O-RING		S26	S26	S30	S30	S35	S40	S48	S50
무급	급유형 Oi	less	з Ту	'pe						
26	WEARING	AC	SBW125	SBW140	SBW150	S8W160	SBW180	S8W200	SBW250	S8W300
27	PISTON PACKING	NBR	PSD 125	PSD 140	PSD 150	PSD 160	DXP 180	DXP 200	DXP 250	DXP 300

페킹 리스트 Packing List

저	유압형 Lc	w ł	-lyd r	auli	с Ту	/pe		
28	PISTON PACKING	NBR	DXP 125	DXP 140	DXP 150	DXP 160		

■ 26,27,28 이외의 패킹은 급유형과 동알(단, 18은 제외) Packing except 26,27,28 is same with Oil Supply Type (except 18).

대형실린더 ISL 시리즈 LARGE-SIZE ISL SERIES

형식 및 사양 기타 Model & Specification and Others

사양 Specification

형식 Type	무급유형 Oiless Type	제유압형Low-Hydraulic Type								
사용유체 Fluid	공기Air	유압작동유 Hydraulic Working Oil								
보증내압력 Bearing pressure	16kg	gf/cm²								
최고사용압력 Max. Working Pressur	9.9k	gf/cm'								
최저사용입력 Min. Working Pressure	0.5 kgf/cm [*]	1 kgf/cm²								
사용피스톤속도 Working Piston Speed	50~500mm/s	0.5~200mm/s								
쿠션 Cushion	쿠션 Cushion	없음 None								
주위온도 및 사용유체온도 Ambient & Working OI temperature	-10~7	70°C								
나사공차 Screw Tolerance	KS2급 2n	d KS Level								
행정길이의 허용차 Allowance of Stroke Length	~250 +1.0 250~1,000	+1.4 1,001~1,500 ^{+1.8}								
취부지지형식 Supporting Type of Fitting Surface	e Basic Type, Foot Type, Rod-side Fange Type, Head-side Flange Type Single Thread CLEVS Type, Double Thread CLEVISType, Trumion Type									

부속품 Parts

취부지지형식Supp	conting Typeof Fitting Surface	Basic Type	Foot Type	Rod−side Range Type	Head-side Range Type	Single Thread CLEVIS Type	Double Thread CLEVIS Type	Center-side Trumion Type
기본부착품	크레비스용 핀 Pin for CLEVIS	-	-	-	-	-	•	-
	로드선단너트 Rod-end Nut	•	•	•	•	•	•	•
주문품	1산너클조인트 Single Knuckle Joint	•	•	•	•	•	•	•
Special Order	2산너클조인트 Double Knuckle Joint	•	•	•	•	•	•	•
	벨로우즈 Bellows	•	•	•	•	•	•	•

표준행정표	Standard Stroke Table)
⊢D(mm)	표준 행정 Standard Stroke	최대행정범위 Max, Stroke Range
125	50,100,150,200,250,300	1000
140	50,100,150,200,250,300	1000
150	50,100,150,200,250,300	1000
160	50,100,150,200,250,300	1200
180	50,100,150,200,250,300	1400
200	50,100,150,200,250,300	1600
250	50,100,150,200,250,300,400	1800
300	50,100,150,200,250,300,400	2000

벨로우즈 재질 및 최고 주위 온도 Working Temperature of Belows Materials												
기호 notation	재질	materials		최고주위온	E Max Ambient Temperature							
J	Nylo		60°C									
K	Neopr	ene Cioss			110°C							
형식 T	ype											
Τy	/pe	Working	Pa	cking	H-D(mm)							
ISL	Oil Supply	Double-acting	0	-Ring	@125,@140,@150,@160							
ISL N	No Oil Supply	Double-acting	S	cial	Ø180,Ø200,Ø250,Ø300							
ISL L	Low-Hydra ulic	Double-acting	S	cecial	Ø125,Ø140,Ø150,Ø160							

지지 금구 부품 품번 Supporting Parts No.

Lot-end I-D(mm)	125	140	150	160	180	200	250	300
푸트형 Foot Type	ISL-LB 125	ISL-LB 140	ISL-LB 150	ISL-LB 160	ISL-LB 180	ISL-LB 200	ISL-LB 250	ISL-LB 300
플랜지형 Flange Type	ISL-F 125	ISL-F 140	ISL-F 150	ISL-F 160	ISL-F 180	ISL-F 200	ISL-F 250	ISL-F 300
1산클레비스형1 Thread CIEVIS	ISL-CA 125	ISL-CA 140	ISL-CA 150	ISL-CA 160	ISL-CA 180	ISL-CA 200	ISL-CA 250	ISL-CA 300
2산클레비스형 2 Thread CIEVIS	ISL-CB 125	ISL-CB 140	ISL-CB 150	ISL-CB 160	ISL-CB 180	ISL-CB 200	ISL-CB 250	ISL-CB 300

선단 금구 품번	Lot-end N	0.					
Lot-end I-D(mm)	125	140	150,160	180	200	250	300
1산클레비스형1 Thread CLEVIS	ISL-125 I	ISL-140 I	ISL-150,160 I	ISL-180 I	ISL-200 I	ISL-250 I	ISL-300 I
2산클레비스형 2 Thread CIEVIS	ISL-125Y	ISL-140 Y	ISL-150,160 Y	ISL-180 Y	ISL-200 Y	ISL-250 Y	ISL-300 Y



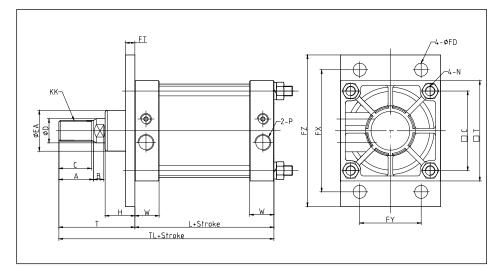
부산광역시 사상구 감전동 156-11번지 Tel. 051) 316-0224(代) Fax. 051) 316-6006 www.dspa.co.kr E-mail, sungil0224@hanmail.net



일반형(FA) General Type(FA)

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

Oil Supply Type ISL-FA / Oiless Type ISL N-FA / Low Hydraulic Type ISL L-FA



단위unit:mm

⊢D(mm)	Stroke Range	С	А	в	□C	ØD	ØEA	ØFD	FT	FX	FY	FZ	н	KK	L	P(PT)
125	~1000	47	50	15	115	35	59	19	14	190	100	230	43	M30X1.5	98	1/2
140	~1000	47	50	15	128	35	59	19	20	212	112	255	43	M30X1.5	98	1/2
150	~1200	53	56	17	132	40	59	19	20	228	115	265	43	M36X1.5	106	3/4
160	~1200	53	56	17	144	40	59	19	20	236	118	275	43	M36X1.5	106	3/4
180	~1400	60	63	20	162	45	70	24	25	265	132	320	48	M40X1.5	111	3/4
200	~1600	60	63	20	182	50	74	24	25	280	150	335	48	M45X1.5	111	3/4
250	~1800	67	71	25	225	60	96	29	30	355	180	420	60	M56X2.0	141	1
300	~2000	76	80	30	270	70	96	33	30	400	212	475	60	M64X2.0	146	1

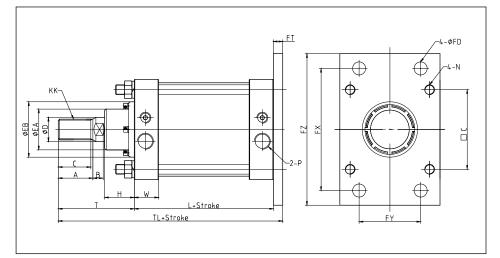
⊢D(mm)	N	ΠT	Т	TL	W
125	M14X1.5	145	110	235	35
140	M14X1.5	161	110	235	35
150	M16X1.5	170	120	256.5	39
160	M16X1.5	184	120	256.5	39
180	M18X1.5	204	135	281	39
200	M20X1.5	226	135	281	39
250	M24X1.5	277	160	342.5	49
300	M30X1.5	330	175	372.5	49

대형실린더 ISL 시리즈 LARGE-SIZE ISL SERIES

일반형(FB) General Type(FB)

헤드측 플랜지형 (FB) Head-side Flange Type(FB)

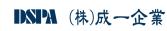
■ Oil Supply Type ISL-FB / Oiless Type ISL N-FB / Low Hydraulic Type ISL L-FB



단위 unit:mm

-																		
⊢D(m	n)	Stroke Range	С	А	В	□C	ØD	ØEA	ØEB	ØFD	FT	FX	FY	FZ	Н	КК	L	P(PT)
125		~1000	47	50	15	115	35	59	90	19	14	190	100	230	43	M30X1.5	98	1/2
140		~1000	47	50	15	128	35	59	90	19	20	212	112	255	43	M30X1.5	98	1/2
150		~1200	53	56	17	132	40	59	90	19	20	228	115	265	43	M36X1.5	106	3/4
160		~1200	53	56	17	144	40	59	90	19	20	236	118	275	43	M36X1.5	106	3/4
180		~1400	60	63	20	162	45	70	115	24	25	265	132	320	48	M40X1.5	111	3/4
200		~1600	60	63	20	182	50	74	115	24	25	280	150	335	48	M45X1.5	111	3/4
250		~1800	67	71	25	225	60	96	140	29	30	355	180	420	60	M56X2.0	141	1
300		~2000	76	80	30	270	70	96	140	33	30	400	212	475	60	M64X2.0	146	1

⊢D(mm)	N	Т	TL	W
125	M14X1.5	110	222	35
140	M14X1.5	110	228	35
150	M16X1.5	120	246	39
160	M16X1.5	120	246	39
180	M18X1.5	135	271	39
200	M20X1.5	135	271	39
250	M24X1.5	160	331	49
300	M30X1.5	175	351	49



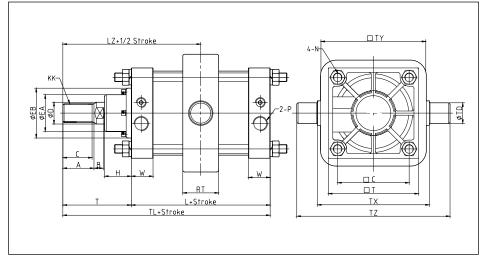
부산광역시 사상구 감전동 156-11번지 Tel. **051) 316-0224**(代) Fax, **051) 316-6006** www.dspa.co.kr E-mail. sungil0224@hanmail.net



일반형(TC) General Type(TC)

센터 트러니온형(TC) Center Trunnion Type(TC)

■ Oil Supply Type ISL-TC / Oiless Type ISL N-TC / Low Hydraulic Type ISL L-TC



단위unit:mm

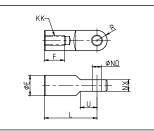
HD(mm)	Stroke Range	С	А	В	ПС	ØD	ØEA	ØEB	Н	KK	L	LZ	N	P(PT)	Π	Т
125	~1000	47	50	15	115	35	59	90	43	M30X1.5	98	159	M14X1.5	1/2	145	110
140	~1000	47	50	15	128	35	59	90	43	M30X1.5	98	159	M14X1.5	1/2	161	110
150	~1200	53	56	17	132	40	59	90	43	M36X1.5	106	173	M16X1.5	3/4	170	120
160	~1200	53	56	17	144	40	59	90	43	M36X1.5	106	173	M16X1.5	3/4	184	120
180	~1400	60	63	20	162	45	70	115	48	M40X1.5	111	190.5	M18X1.5	3/4	204	135
200	~1600	60	63	20	182	50	74	115	48	M45X1.5	111	190.5	M20X1.5	3/4	226	135
250	~1800	67	71	25	225	60	96	140	60	M56X2.0	141	230.5	M24X1.5	1	277	160
300	~2000	76	80	30	270	70	96	140	60	M64X2.0	146	248	M30X1.5	1	330	175

⊢D(mm)	RT	ØTD	TL	ТΧ	ΠTΥ	ΤZ	W
125	50	32-0.05	208	170	164	234	35
140	55	36-0.05	208	190	184	262	35
150	59	40-0.05	226	200	192	275	39
160	59	40-0.05	226	212	204	292	39
180	60	45-0.05	246	236	228	326	39
200	60	45-0.05	246	265	257	355	39
250	69	56-0.06	301	335	325	447	49
300	79	67-0.06	321	400	390	534	49

대형실린더 ISL 시리즈 LARGE-SIZE ISL SERIES

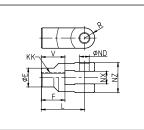
부속 금구 Parts-end

1산 너클 조인트 Single-Thread Knuckle Joint



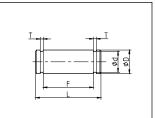
							단위	unit:mm
⊢D(mm)	ØE	F	КК	L	ØND	NX	R	U
125	46	54	M30X1.5	100	25 0	32 -0.1	27	33
140	48	54	M30X1.5	105	28 +0.08	36 -0.1	30	39
150,160	55	60	M36X1.5	110	32 +0.10	40 -0.1	34	39
180	70	67	M40X1.5	125	40 +0.10	50 -0.1	42.5	44
200	70	67	M45X1.5	125	40 +0.10	50 -0.1	42.5	44
250	86	75.5	M56X2	160	50 +0.10	63 -0.1	53	66
300	105	84.5	M64X2	175	63 +0.12	80 -0.1	66	71

2산 너클조인트 Double-Thread Knuckle Joint



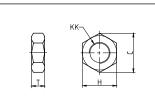
								단위ur	nit∶mm
⊢D(mm)	ØE	KK	L	ØND	NX	NZ	R	F	v
125	46	M30X1.5	100	25 °0	32 -0.3	64 -0.1	27	38	58
140	48	M30X1.5	105	28 +0.08	36 -0.3	72 -0.1	30	38	58
150,160	55	M36X1.5	110	32 +0.10	40 -0.3	80 -0.1	34	40	64
180	70	M40X1.5	125	40 +0.10	50 -0.3	100 -0.1	42.5	43	71
200	70	M45X1.5	125	40 +0.10	50 -0.3	100 -0.1	42.5	43	71
250	86	M56X 2	160	50 +0.10	63 -0.3	126 -0.1	53	47	79
300	105	M64X 2	175	63 +0.12	80 -0.3	160 -0.1	66	50	78

너클 클레비스형 핀 Knuckle CLEVIS Type Pin



be Pin				5	산위unit:mm
⊢D(mm)	ØD	Ød	L	F	Т
125	25 -0.06	23.5	72	64.3	1.35
140	28 -0.06	26	80.6	72.3	1.65
150,160	32 -0.08	29.5	89.6	80.3	1.65
180,200	40 -0.08	37	110.1	100.3	1.9
250	50 -0.08	46	138.9	126.5	2.2
300	63 -0.10	59	172.9	160.5	2.2

로드너트 Rod nut



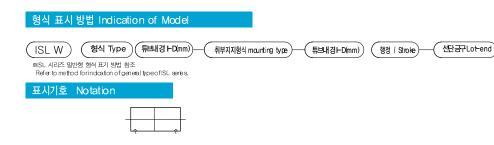
			단위	unit∶mn
⊢D(mm)	С	Н	кк	Т
125,140	53.1	46	M30X1.5	18
150,160	63.5	55	M36X1.5	21
180	69.3	60	M40X1.5	23
200	80.8	70	M45X1.5	27
250	98.1	85	M56X1.5	34
300	110	95	M64X1.5	38



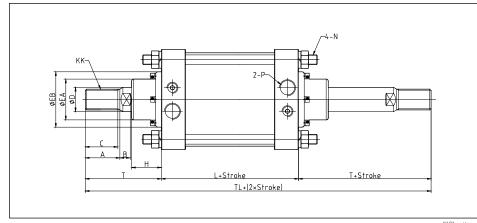
부산광역시 사상구 감전동 156-11번지 Tel. 051) 316-0224(代) Fax. 051) 316-6006 www.dspa.co.kr E-mail, sungil0224@hanmail.net

ISIA (株)成一企業

양로드형 Double-rod Type



외형 치수도/기본형 Outside Dimension Drawings/Basic Type



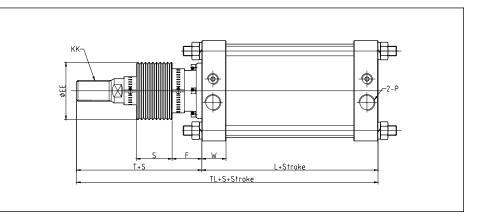
_															단위 unit:mm
	HD(mm)	Stroke Range	С	А	в	Т	ØD	ØEA	ØEB	Н	КК	L	N	P(PT)	TL
- [125	~1000	47	50	15	110	35	59	90	43	M30X1.5	98	M14X1.5	1/2	318
Г	140	~1000	47	50	15	110	35	59	90	43	M30X1.5	98	M14X1.5	1/2	318
	150	~1200	53	56	17	120	40	59	90	43	M36X1.5	106	M16X1.5	3/4	346
	160	~1200	53	56	17	120	40	59	90	43	M36X1.5	106	M16X1.5	3/4	346
	180	~1400	60	63	20	135	45	70	115	48	M40X1.5	111	M18X1.5	3/4	381
	200	~1600	60	63	20	135	50	74	115	48	M45X1.5	111	M20X1.5	3/4	381
	250	~1800	67	71	25	160	60	96	140	60	M56X2.0	141	M24X1.5	1	461
	300	~2000	76	80	30	175	70	96	140	60	M64X2.0	146	M30X1.5	1	496

대형실린더 ISL 시리즈 LARGE-SIZE ISL SERIES

벨로우즈 부착형 Bellows-Mounted Type

형식 표시 방법 Indication of Model (ISL) (형식 Type) (류브내 경 - D/mm) (환지지형식 mounting type) (류브내 + D/mm) (행정 / Stroke) - (J - 선단금구 Lot-end) #벨로 우즈 부착Ballows-Mourted Type J-L이문 티몰린 60C Nylon Tapauln K:비오프 렌크로스110C NeopreneCross

외형 치수도/기본형 Outside Dimension Drawings/Basic Type



									단위 u	nit:mm
⊢D(mm)	ØEE	F	КК	N	L	P(PT)	Т	TL	S	W
125	90	40	M30X1.5	M14X1.5	98	1/2	133	231		35
140	90	40	M30X1.5	M14X1.5	98	1/2	133	231		35
150	90	40	M36X1.5	M16X1.5	106	3/4	141	247	0.2×	39
160	90	40	M36X1.5	M16X1.5	106	3/4	141	247	strcke(mm)	39
180	115	45	M40X1.5	M18X1.5	111	3/4	153	264		39
200	115	45	M45X1.5	M20X1.5	111	3/4	153	264		39
250	140	55	M56X2.0	M24X1.5	141	1	176	317	0.17×	49
300	140	55	M64X2.0	M30X1.5	146	1	190	336	strcke(mm)	49

※기타 표시하지 않은 치수는 ISL 기본형 참조

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



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