Series AXS

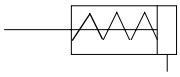
Standard Type/Single Acting:Spring Return, Spring Extended

Bore Size(mm) : ϕ20, ϕ25, ϕ32, ϕ40

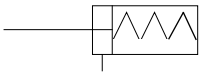
- STAINLESS STEEL BODY
- HIGH CYCLE LIFE
- LOW BREAKAWAY
- NUMEROUS MOUNTING OPTION
- MAGNET STANDARD FOR AUTO SWITCH
- BUMPERS STANDARD
- DESIGNED FOR NON-LUBRICATED SERVICE
- COMPACT LIGHT DESIGN
- REPLACEABLE ROD GLAND
- MANUFACTURING CERTIFIED TO ISO 9001 / 9002

Symbol

· Single acting spring return



· Single acting spring Extended



How to Order

AXS L 32 — 40 S — ○ — W5 □

1 2 3 4 5 6 7 8

1 Type:Single Acting

2 Mounting
- B : Basic Type
- L : Axial Foot Type
- F : Rod Side Flange Type
- G : Head Side Flange Type
- C : Single Clevis Type
- D : Double Clevis Type
- T : Head Side Trunnion Type
- U : Rod Side Trunnion Type
- E : Integrated Clevis Type
- BZ : Boss-Cut Basic Type
- FZ : Boss-Cut Flange Type
- UZ : Boss-Cut Trunnion Type

3 Bore Size(mm)
- 20 : ϕ20
- 25 : ϕ25
- 32 : ϕ32
- 40 : ϕ40

4 Stroke

※ For Stroke Refer to page A-69.

5 Action
- S : Single Acting Spring Return
- T : Single Acting Spring Extended

6 Special Option
- Blank : Standard type
- XC16 : Copper-free

7 Applicable Auto Switch Reed Switch
- Blank : Without auto switch
- W5 : W5

Standard Lead Length 0.5m (Up to 3m Optional)

8 Number of Switches
- Blank : 2 pcs.
- S : 1 pc.
- n : (n) pcs.

PART No. of Mounting Bracket

Bore Size(mm)	ϕ20	ϕ25	ϕ32	ϕ40
※Axial foot	TCM-L020B	TCM-L032B		TCM-L040B
Flange	TCM-F020B	TCM-F032B		TCM-F040B
Single Clevis	TCM-C020B	TCM-C032B		TCM-C040B
Double Clevis	TCM-D020B	TCM-D032B		TCM-D040B
Trunnion(With Nut)	TCM-T020B	TCM-T032B		TCM-T040B

※ 2pcs. Required Per Cylinder

PART No. of Auto Switch Mounting Band

Auto Switch Model	Bore Size(mm)			
	ϕ20	ϕ25	ϕ32	ϕ40
W5	TBM2-020	TBM2-025	TBM2-032	TBM2-040

Model

Bore Size(mm)	ϕ20	ϕ25	ϕ32	ϕ40
Type	Air Cylinder			
Cushion	Rubber Cushion			
Piping Method	Rc(PT)1/8	Rc(PT)1/8	Rc(PT)1/8	Rc(PT)1/4

Specifications

Action	Spring Return	Spring Extended
Fluid	Air	
Proof Pressure	15kgf/cm² {1.5MPa}	
Max. Operating Pressure	9.9kgf/cm² {0.9MPa}	
Min. Operating Pressure	1.8kgf/cm² {0.18 MPa}	2.3kgf/cm² {0.23 MPa}
Ambient and Fluid Temperature	40~140°F (5~60°C)	
Lubrication	None(Non-lube)	
Thread Tolerance	KS 2 class	
Stroke Tolerance	$^{+1.4}_{0}$ mm	

Piston Speed

Bore Size(mm)	ϕ20	ϕ25	ϕ32	ϕ40
Piston speed(mm/sec)	50~500			
Allowable kinetic energy(kgf-cm)	2.7	4	6.5	12

Standard Stroke

Bore Size(mm)	Standard Stroke(mm)
ϕ20	25, 50, 75, 100, 125, 150
ϕ25	25, 50, 75, 100, 125, 150
ϕ32	25, 50, 75, 100, 125, 150, 200
ϕ40	25, 50, 75, 100, 125, 150, 200, 250

Auto Switch Specification

Mounting	Lead Wire Entry	Reed Switch
Band Mounting Type	Grommet	W5

Boss-Cut Type

Boss for the head cover bracket is eliminated and the total length of the cylinder is shortened.

Compared to the Total Length of Cylinder

(Compared to the Basic Type) (mm)

20	25	32	40
▲13	▲13	▲13	▲16

Mounting

■ Boss-Cut Basic Type(BZ) ■ Boss-Cut Flange Type(FZ)
■ Boss-Cut Trunnion Type(UZ)

Mounting and Accessories

Mounting \ Accessories	Standard			Option	
	Mounting Nut	Rod end Nut	Clevis Pin	Single Knuckle Joint	Double Knuckle Joint
Basic Type	●1pc.	●	–	●	●
Axial Foot Type	●2pcs.	●	–	●	●
Rod Side Flange Type	●1pc.	●	–	●	●
Head Side Flange Type	●1pc.	●	–	●	●
Integrated Clevis Type	–	●	–	●	●
Single Clevis Type	–	●	–	●	●
Double Clevis Type	–	●	●	●	●
Head Side Trunnion Type	●1pc.	●	–	●	●
Rod Side Trunnion Type	●1pc.	●	–	●	●
Boss-Cut Basic Type	●1pc.	●	–	●	●
Boss-Cut Flange Type	●1pc.	●	–	●	●
Boss-Cut Trunnion Type	●1pc.	●	–	●	●
Note					With Pin

Weight Table

Spring Return (kgf)

Bore Size (mm)		ϕ20	ϕ25	ϕ32	ϕ40
Basic weight	25 stroke	0.20	0.30	0.42	0.77
	50 stroke	0.22	0.33	0.46	0.84
	75 stroke	0.27	0.42	0.58	1.03
	100 stroke	0.29	0.45	0.63	1.09
	125 stroke	0.35	0.54	0.76	1.29
	150 stroke	0.37	0.57	0.80	1.36
	200 stroke	–	–	0.97	1.61
	250 stroke	–	–	–	1.87
Mounting Bracket Weight	Foot Type	0.15	0.16	0.16	0.27
	Flange Type	0.06	0.09	0.09	0.12
	Single Clevis Type	0.04	0.04	0.04	0.09
	Double Clevis Type	0.05	0.06	0.06	0.13
	Trunnion Type	0.04	0.07	0.07	0.10
	Integrated Clevis Type	-0.02	-0.02	-0.01	-0.04
	Boss-Cut Basic Type	-0.01	-0.02	-0.02	-0.03
	Boss-Cut Flange Type	0.05	0.07	0.07	0.09
	Boss-Cut Trunnion Type	0.03	0.05	0.05	0.07
Accessories	Single Knuckle Joint	0.06	0.06	0.06	0.23
	Double Knuckle Joint(with pin)	0.07	0.07	0.07	0.20

Spring Extended (kgf)

Bore Size(mm)		ϕ20	ϕ25	ϕ32	ϕ40
Basic weight	25 stroke	0.19	0.29	0.40	0.74
	50 stroke	0.21	0.32	0.44	0.81
	75 stroke	0.25	0.39	0.54	0.97
	100 stroke	0.27	0.42	0.58	1.03
	125 stroke	0.32	0.49	0.69	1.20
	150 stroke	0.34	0.52	0.73	1.27
	200 stroke	–	–	0.88	1.49
	250 stroke	–	–	–	1.72
Mounting Bracket Weight	Foot Type	0.15	0.16	0.16	0.27
	Flange Type	0.06	0.09	0.09	0.12
	Single Clevis Type	0.04	0.04	0.04	0.09
	Double Clevis Type	0.04	0.06	0.06	0.13
	Trunnion Type	0.04	0.07	0.07	0.10
	Integrated Clevis Type	-0.02	-0.02	-0.01	-0.04
	Boss-Cut Basic Type	-0.01	-0.02	-0.02	-0.03
	Boss-Cut Flange Type	0.05	0.07	0.07	0.09
	Boss-Cut Trunnion Type	0.03	0.05	0.05	0.07
Accessories	Single Knuckle Joint	0.06	0.06	0.06	0.23
	Double Knuckle Joint(with pin)	0.07	0.07	0.07	0.20

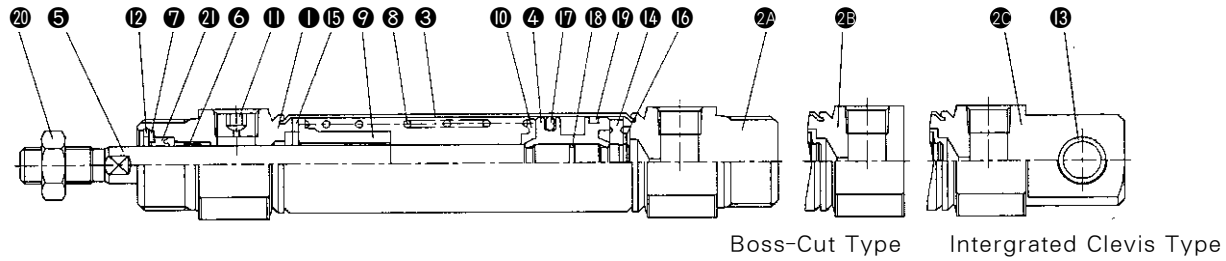
Calculation Example : AXL32-100S

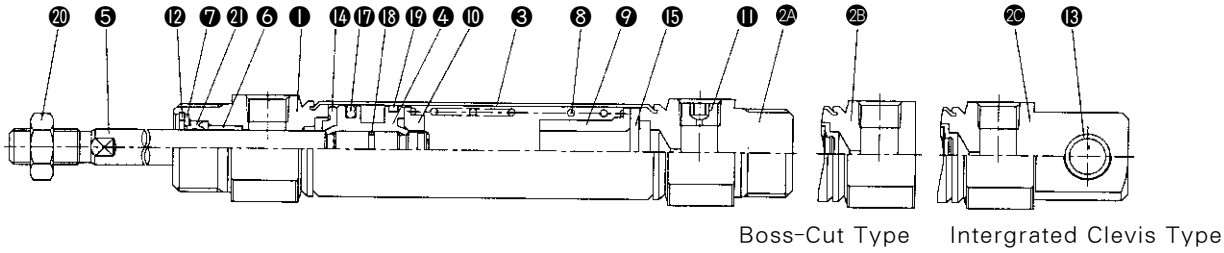
Basic weight ···0.63 kgf(Foot type ϕ32)

Cylinder stroke ···100 stroke

0.63+0.16=0.79kgf

Construction/Parts List





Part List

No.	Description	Material	Remarks
❶	Rod Cover	Aluminum Alloy	White Alumite
2A	Head Cover-A	Aluminum Alloy	White Alumite
2B	Head Cover-B	Aluminum Alloy	White Alumite
2C	Head Cover-C	Aluminum Alloy	White Alumite
❸	Cylinder Tube	Stainless Steel	-
❹	Piston	Aluminum Alloy	Chromate
❺	Piston Rod	Carbon Steel	Hard Chrome Plating
❻	Guide Bush		
❼	Retaining Ring		Nickel Plating
❽	Spring		
❾	Spring Guide	Aluminum Alloy	Chromate
❿	Spring Supporter	Aluminum Alloy	〃
⓫	Plug		
⓬	Stopper Ring		Nickel Plating

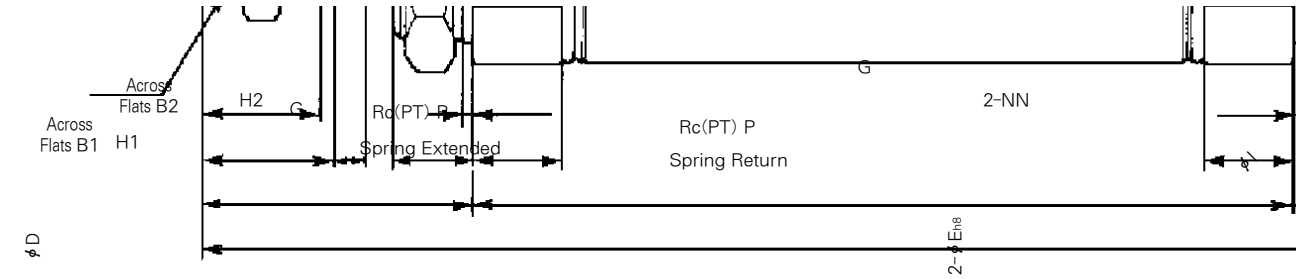
No.	Description	Material	Remarks
⓭	Bushing		
⓮	Damper A	Urethane	
⓯	Damper B	Urethane	
⓰	Retaining Ring	Carbon Tool Steel	
⓱	Piston Packing	NBR	
⓲	Piston Gasket	NBR	
⓳	Wear Ring	Resin	
⓴	Rod End Nut	Carbon Steel	Nickel Plating

Packing List

No.	Description	Material	Bore Size(mm)			
			20	25	32	40
㉑	Rod Packing	NBR	PDU-8Z	PDU-10Z	PDU-12LZ	PDU-14LZ

Basic(B)

AXSB Bore Size — Stroke S T



MM

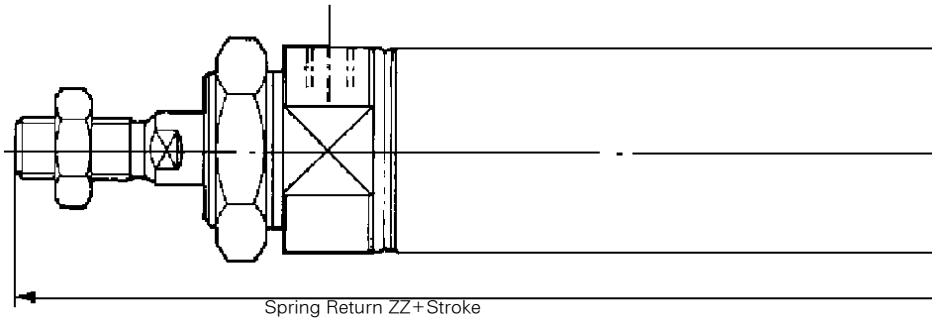
AL
A K F 1.5 N
Spring Return H
Spring Extended H+Stroke

S+Stroke
Spring ExtendedZZ+Stroke
(Spring Return ZZ+2×Stroke)

1.5
N
F

□NA

Boss-Cut Type



※ This Drawing is Spring Extended.

(Unit : mm)

Bore Size	A	AL	B_1	B_2	D	E	F	G	H	H_1	H_2	I	K	MM	N	NA	NN	P
φ20	18	15.5	13	26	8	$20^{0}_{-0.033}$	13	8	41	5	8	27	5	M8×1.25	15	24	M20×1.5	1/8
φ25	22	19.5	17	32	10	$26^{0}_{-0.033}$	13	8	45	6	8	33	5.5	M10×1.25	15	30	M26×1.5	1/8
φ32	22	19.5	17	32	12	$26^{0}_{-0.033}$	13	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	M26×1.5	1/8
φ40	24	21	22	41	14	$32^{0}_{-0.039}$	16	11	50	8	10	46.5	7	M4×1.5	21.5	42.5	M32×2	1/4

Stroke Dimension Adder

(Unit : mm)

Bore Size \ Stroke / Symbol	1~50		51~100		101~150		151~200		201~250	
	S	ZZ	S	ZZ	S	ZZ	S	ZZ	S	ZZ
φ20	87	141	112	166	137	191	–	–	–	–
φ25	87	145	112	170	137	195	–	–	–	–
φ32	89	147	114	172	139	197	164	222	–	–
φ40	113	179	138	204	163	229	188	254	213	279

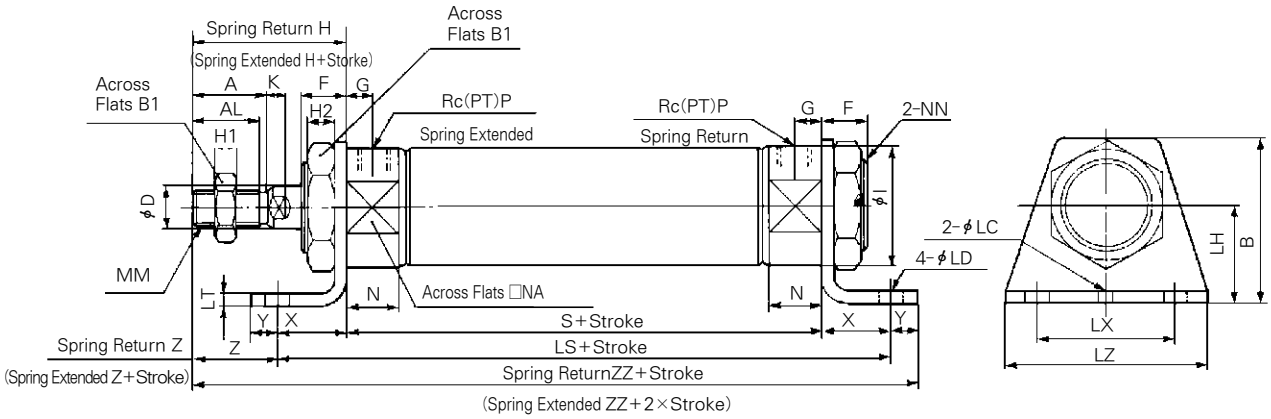
Boss-Cut Type

(Unit : mm)

Bore Size \ Stroke / Symbol	1~50	51~100	101~150	151~200	201~250
	ZZ	ZZ	ZZ	ZZ	ZZ
φ20	128	153	178	–	–
φ25	132	157	182	–	–
φ32	134	159	184	209	–
φ40	163	188	213	238	263

Axial Foot Type (L)

AXSL Bore Size — Stroke S/T



※ This Drawing is Spring Extended

(Unit : mm)

Bore Size	A	AL	B	B_1	B_2	D	F	G	H	H_1	H_2	I	K	LC	LD	LH	LT	LX	LZ	MM	N	NA	NN	P	X	Y	Z
φ20	18	15.5	40	13	26	8	13	8	41	5	8	27	5	4	6.8	25	3.2	40	55	M20×1.25	15	24	M20×1.5	1/8	20	8	21
φ25	22	19.5	47	17	32	10	13	8	45	6	8	33	5.5	4	6.8	28	3.2	40	55	M20×1.25	15	30	M20×1.5	1/8	20	8	25
φ32	22	19.5	47	17	32	12	13	8	45	6	8	37.5	5.5	4	6.8	28	3.2	40	55	M20×1.25	15	34.5	M20×1.5	1/8	20	8	25
φ40	24	21	54	22	41	14	16	11	50	8	10	46.5	7	4	7	30	3.2	55	75	M20×1.25	21.5	42.5	M20×1.5	1/8	23	8	25

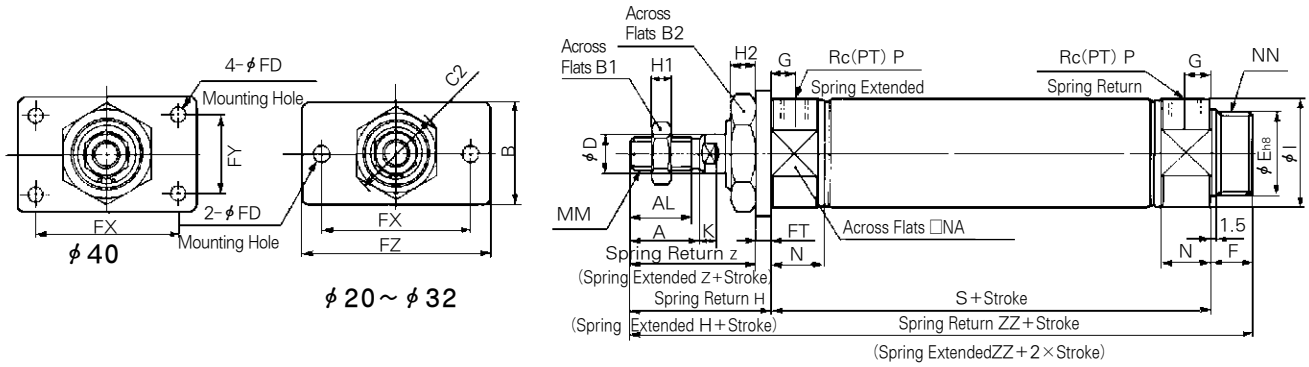
Stroke Dimension Adder

(Unit : mm)

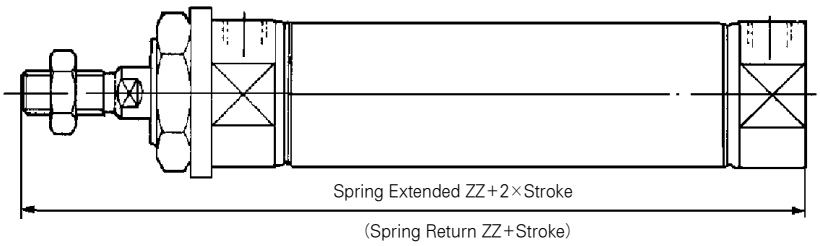
Bore size \ Stroke / Symbol	1~50			51~100			101~150			151~200			201~250		
	S	LS	ZZ	S	LS	ZZ	S	LS	ZZ	S	LS	ZZ	S	LS	ZZ
φ20	87	127	156	112	152	181	137	177	206	–	–	–	–	–	–
φ25	87	127	160	112	152	185	137	177	210	–	–	–	–	–	–
φ32	89	129	162	114	154	187	139	179	212	164	204	237	–	–	–
φ40	113	159	196	138	184	221	163	209	246	188	234	271	213	259	296

Rod Side Flange Type(F)

AXSF Bore Size — Stroke S T



Boss-Cut Type



※ This drawing is spring extended

(Unit : mm)

Bore Size	A	AL	B	B_1	B_2	C_2	D	E	F	FD	FT	FX	FY	FZ	G	H	H_1	H_2	I	K	MM	N	NA	NN	P	Z
φ20	18	15.5	34	13	26	30	8	$20^{0}_{-0.033}$	13	7	4	60	–	75	8	41	5	8	27	5	M8×1.25	15	24	M20×1.5	1/8	37
φ25	22	19.5	40	17	32	37	10	$26^{0}_{-0.033}$	13	7	4	60	–	75	8	45	6	8	33	5.5	M10×1.25	15	30	M26×1.5	1/8	41
φ32	22	19.5	40	17	32	37	12	$26^{0}_{-0.033}$	13	7	4	60	–	75	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	M26×1.5	1/8	41
φ40	24	21	52	22	41	47.3	14	$32^{0}_{-0.039}$	16	7	5	66	36	82	11	50	8	10	46.5	7	M14×1.5	21.5	42.5	M32×2	1/4	45

Stroke Dimension Adder

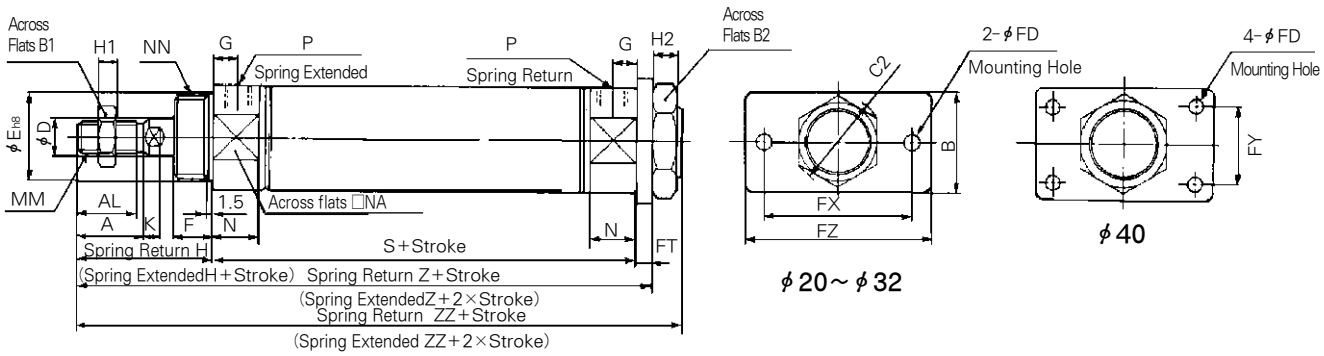
Bore size \ Stroke / Symbol	1~50		51~100		101~150		151~200		201~250	
	S	ZZ	S	ZZ	S	ZZ	S	ZZ	S	ZZ
φ20	87	141	112	166	137	191	–	–	–	–
φ25	87	145	112	170	137	195	–		–	–
φ32	89	147	114	172	139	197	164	222	–	–
φ40	113	179	138	204	163	229	188	254	213	279

Boss-Cut Type

Bore size \ Stroke / Symbol	1~50	51~100	101~150	151~200	201~250
	ZZ	ZZ	ZZ	ZZ	ZZ
φ20	128	153	178	–	–
φ25	132	157	182	–	–
φ32	134	159	184	209	–
φ40	163	188	213	238	263

Head Side Flange Type(G)

AXSG Bore Size — Stroke $\frac{S}{T}$



※This Drawing is Spring Extended. (Unit : mm)

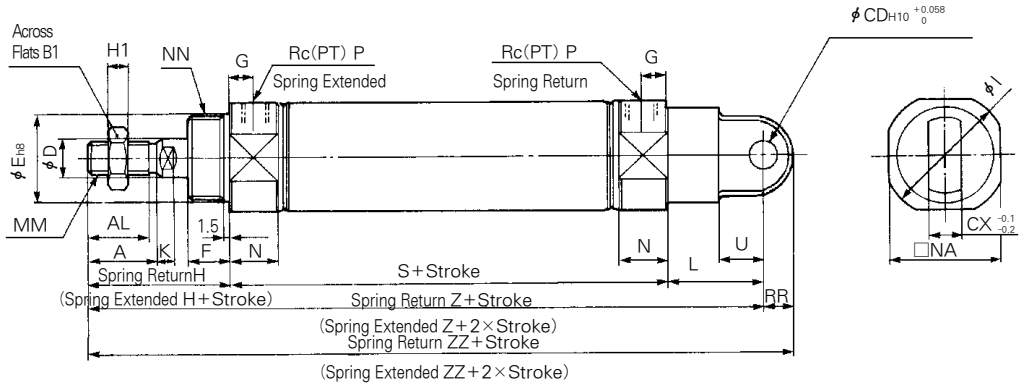
Bore Size	A	AL	B	B_1	B_2	C_2	D	E	F	FD	FT	FX	FY	FZ	G	H	H_1	H_2	I	K	MM	N	NA	NN	P	Z
φ20	18	15.5	34	13	26	30	8	$20^{0}_{-0.033}$	13	7	4	60	–	75	8	41	5	8	27	5	M8×1.25	15	24	M20×1.5	1/8	37
φ25	22	19.5	40	17	32	37	10	$26^{0}_{-0.033}$	13	7	4	60	–	75	8	45	6	8	33	5.5	M10×1.25	15	30	M26×1.5	1/8	41
φ32	22	19.5	40	17	32	37	12	$26^{0}_{-0.033}$	13	7	4	60	–	75	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	M26×1.5	1/8	41
φ40	24	21	52	22	41	47.3	14	$32^{0}_{-0.039}$	16	7	5	66	36	82	11	50	8	10	46.5	7	M14×1.5	21.5	42.5	M32×2	1/4	45

Stroke Dimension Adder

Bore size \ Stroke / Symbol	1~50			51~100			101~150			151~200			201~250		
	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
φ20	87	132	141	112	157	166	137	182	191	–	–	–	–	–	–
φ25	87	136	145	112	161	170	137	186	195	–	–	–	–	–	–
φ32	89	138	147	114	163	172	139	188	197	164	213	222	–	–	–
φ40	113	168	179	138	193	204	163	218	229	188	243	254	213	268	279

Single Clevis Type(C)

AXSC Bore Size — Stroke S T



※ This Drawing is Spring Extended (Unit : mm)

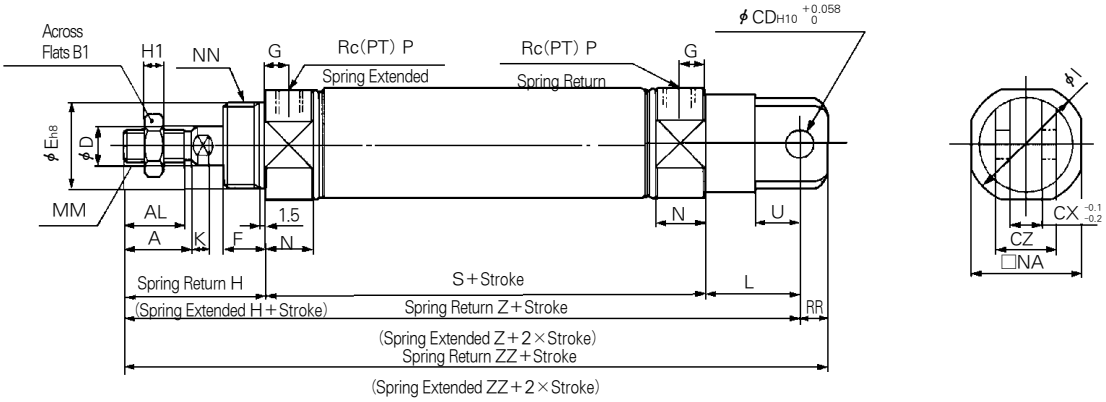
Bore Size	A	AL	B_1	CD	CX	D	E	F	G	H	H_1	I	K	L	MM	N	NA	NN	P	RR	U
φ20	18	15.5	13	9	10	8	$20^{0}_{-0.033}$	13	8	41	5	27	5	30	M8×1.25	15	24	M20×1.5	1/8	9	14
φ25	22	19.5	17	9	10	10	$26^{0}_{-0.033}$	13	8	45	6	33	5.5	30	M10×1.25	15	30	M26×1.5	1/8	9	14
φ32	22	19.5	17	9	10	12	$26^{0}_{-0.033}$	13	8	45	6	37.5	5.5	30	M10×1.25	15	34.5	M26×1.5	1/8	9	14
φ40	24	21	22	10	15	14	$32^{0}_{-0.039}$	16	11	50	8	46.5	7	39	M14×1.5	21.5	42.5	M32×2	1/4	11	18

Stroke Dimension Adder

Bore size \ Stroke Symbol	1~50			51~100			101~150			151~200			201~250		
	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
φ20	87	158	167	112	183	192	137	208	217	–	–	–	–	–	–
φ25	87	162	171	112	187	196	137	212	221	–	–	–	–	–	–
φ32	89	164	173	114	189	198	139	214	223	164	239	248	–	–	–
φ40	113	202	213	138	227	238	163	252	263	188	277	288	213	302	313

Double Clevis Type(D)

AXSD (Bore Size) — (Stroke) S T



※ This Drawing is Spring Extemded

(Unit : mm)

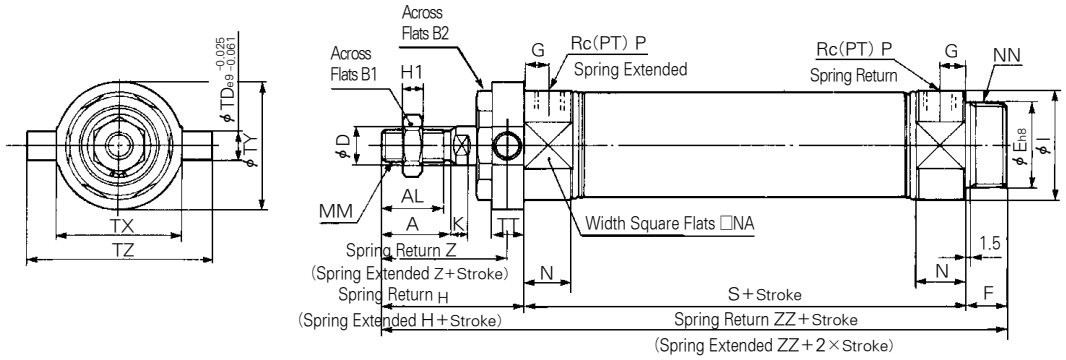
Bore Size	A	AL	B1	CD	CX	CZ	D	E	F	G	H	H1	I	K	L	MM	N	NA	NN	P	RR	U
φ20	18	15.5	13	9	10	19	8	20 0 -0.033	13	8	41	5	27	5	30	M8×1.25	15	24	M20×1.5	1/8	9	14
φ25	22	19.5	17	9	10	19	10	26 0 -0.033	13	8	45	6	33	5.5	30	M10×1.25	15	30	M26×1.5	1/8	9	14
φ32	22	19.5	17	9	10	19	12	26 0 -0.033	13	8	45	6	37.5	5.5	30	M10×1.25	15	34.5	M25×1.5	1/8	9	14
φ40	24	21	22	10	15	30	14	32 0 -0.039	16	11	50	8	46.5	7	39	M14×1.5	21.5	42.5	M32×2	1/4	11	18

Stroke Dimension Adder

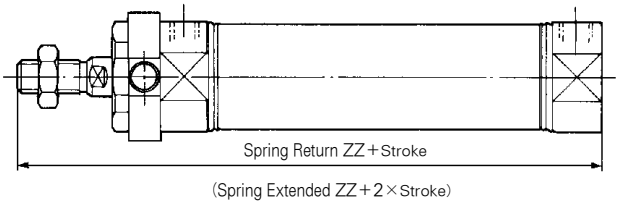
Bore size \ Stroke Symbol	1~50			51~100			101~150			151~200			201~250		
	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
φ20	87	158	167	112	183	192	137	208	217	–	–	–	–	–	–
φ25	87	162	171	112	187	196	137	212	221	–	–	–	–	–	–
φ32	89	164	173	114	189	198	139	214	223	164	239	248	–	–	–
φ40	113	202	213	138	227	238	163	252	263	188	277	288	213	302	313

Rod Side Trunnion Type(U)

AXSU Bore Size — Stroke S T



Boss-Cut Type



※This drawing spring extended

(Unit : mm)

Bore size	A	AL	B_1	B_2	D	E	F	G	H	H_1	I	K	MM	N	NA	NN	P	TD	TT	TX	TY	TZ	Z
φ20	18	15.5	13	26	8	$20^{0}_{-0.033}$	13	8	41	5	27	5	M8×1.25	15	24	M20×1.5	1/8	8	10	32	32	52	36
φ25	22	19.5	17	32	10	$26^{0}_{-0.033}$	13	8	45	6	33	5.5	M10×1.25	15	30	M26×1.5	1/8	9	10	40	40	60	40
φ32	22	19.5	17	32	12	$26^{0}_{-0.033}$	13	8	45	6	37.5	5.5	M10×1.25	15	34.5	M26×1.5	1/8	9	10	40	40	60	40
φ40	24	21	22	41	14	$32^{0}_{-0.039}$	16	11	50	8	46.5	7	M14×1.5	21.5	42.5	M32×2	1/4	10	11	53	53	77	44.5

Stroke Dimension Adder

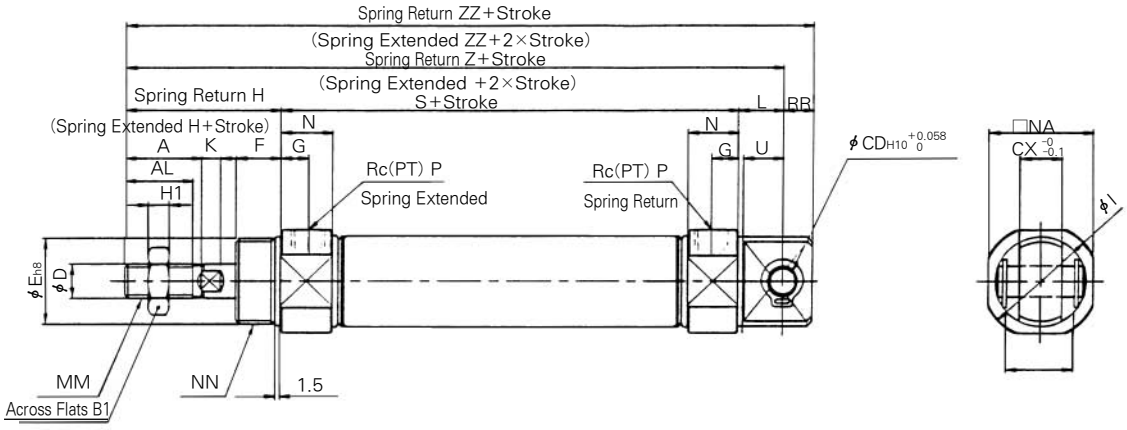
Bore size \ Stroke / Symbol	1~50		51~100		101~200		151~200		201~250	
	S	ZZ	S	ZZ	S	ZZ	S	ZZ	S	ZZ
φ20	87	141	112	166	137	191	–	–	–	–
φ25	87	145	112	170	137	195	–		–	–
φ32	89	147	114	172	139	197	164	222	–	–
φ40	113	179	138	204	163	229	188	254	213	279

Boss-Cut Type

Bore size \ Stroke / Symbol	1~50	51~100	101~150	151~200	201~250
	ZZ	ZZ	ZZ	ZZ	ZZ
φ20	128	153	178	–	–
φ25	132	157	182	–	–
φ32	134	159	184	209	–
φ40	163	188	213	238	263

Integrated Clevis Type(E)

AXSE Bore Size — Stroke ST



※ This drawing is spring extended.

(Unit : mm)

Bore Size	A	AL	B_1	CD	CX	D	E	F	G	H	H_1	I	K	L	LV	MM	N	NA	NN	P	RR	U
φ20	18	15.5	13	8	12	8	20 $^{0}_{-0.033}$	13	8	41	5	27	5	12	18.4	M8×1.25	15	24	M20×1.5	1/8	9	11.5
φ25	22	19.5	17	8	12	10	26 $^{0}_{-0.033}$	13	8	45	6	33	5.5	12	18.4	M10×1.25	15	30	M26×1.5	1/8	9	11.5
φ32	22	19.5	17	10	20	12	26 $^{0}_{-0.033}$	13	8	45	6	37.5	5.5	15	28	M10×1.25	15	34.5	M26×1.5	1/8	12	14.5
φ40	24	21	22	10	20	14	32 $^{0}_{-0.039}$	16	11	50	8	46.5	7	15	28	M14×1.5	21.5	42.5	M32×2	1/4	12	14.5

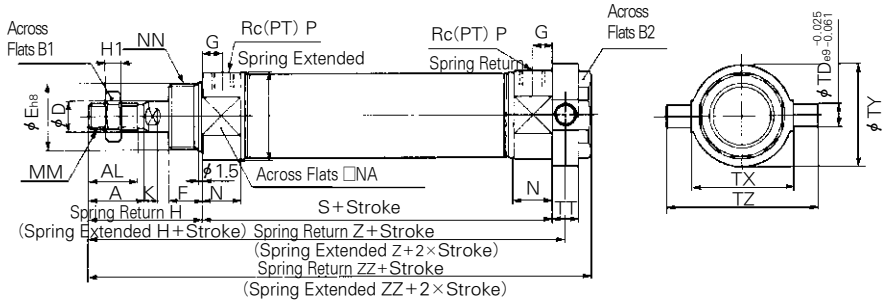
Stroke Dimension Adder

(Unit : mm)

Bore size \ Stroke / Symbol	1~50			51~100			101~150			151~200			201~250		
	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
φ20	87	140	149	112	165	174	137	190	199	–	–	–	–	–	–
φ25	87	144	153	112	169	178	137	194	203	–	–	–	–	–	–
φ32	89	149	161	114	174	186	139	199	211	164	224	236	–	–	–
φ40	113	178	190	138	203	215	163	228	240	188	253	265	213	278	290

Head Side Trunnion Type(T)

AXST (Bore Size) — (Stroke) ST



※ This Drawing is Spring Extended

(Unit : mm)

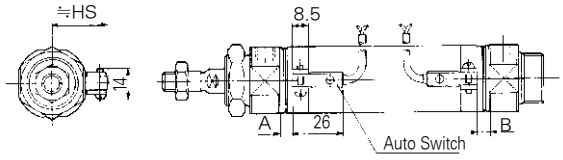
Bore Size	A	AL	B1	B2	D	E_{h8}	F	G	H	H_1	I	K	MM	N	NA	NN	P	TD	TT	TX	TY	TZ
φ20	18	15.5	13	26	8	$20^{0}_{-0.033}$	13	8	41	5	27	5	M8×1.25	15	24	M20×1.5	1/8	8	10	32	32	52
φ25	22	19.5	17	32	10	$26^{0}_{-0.033}$	13	8	45	6	33	5.5	M10×1.25	15	30	M26×1.5	1/8	9	10	40	40	60
φ32	22	19.5	17	32	12	$26^{0}_{-0.033}$	13	8	45	6	37.5	5.5	M10×1.25	15	34.5	M26×1.5	1/8	9	10	40	40	60
φ40	24	21	22	41	14	$32^{0}_{-0.039}$	16	11	50	8	46.5	7	M14×1.5	21.5	42.5	M32×2	1/4	10	11	53	53	77

Bore size \ Stroke / Symbol	1~50			51~100			101~150			151~200			201~250		
	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
φ20	87	133	143	112	158	168	137	183	193	–	–	–	–	–	–
φ25	87	137	147	112	162	172	137	187	197	–	–	–	–	–	–
φ32	89	139	149	114	164	174	139	189	199	164	214	224	–	–	–
φ40	113	168.5	179	138	193.5	204	163	218.5	229	188	243.5	254	213	268.5	279

Reed Switch Setting Position (Stroke End)

W5

(Unit : mm)



Auto Switch Mounting, Minimum Possible Cylinder Stroke

Auto Switch Type	No. of auto switch				1pc
	2pcs.		npcs.		
	Different Surface	Same Surface	Different Surface	Same Surface	
W5	15	50	$15+45(\frac{n-2}{2})$ (n=2,4,6,8…)	50+45(n-2)	10

Auto Switch Setting Position(Stroke End)

(Unit : mm)

Auto Switch Type	Bore Size	Spring Return						Spring Extended						Hs
		A					B	A	B					
		~50ST	51~100ST	101~150ST	151~200ST	201~250ST			~50ST	51~100ST	101~150ST	151~200ST	201~250ST	
W5	φ20	32	57	82	107	132	6	7	31	56	81	106	131	22.5
	φ25	32	57	82	107	132	6	7	31	56	81	106	131	25
	φ32	33	58	83	108	133	7	8	32	57	82	107	132	28.5
	φ40	38	63	88	113	138	12	13	37	62	87	112	137	32.5