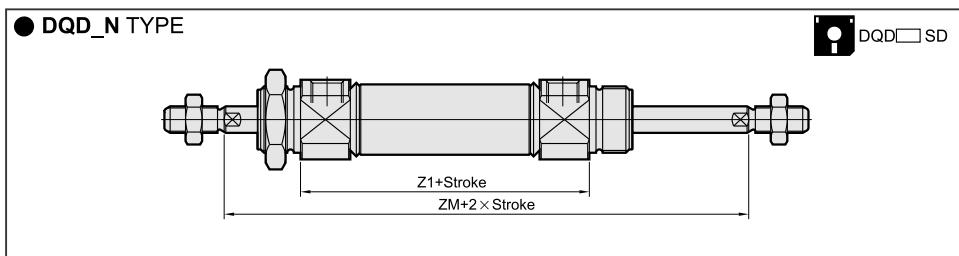
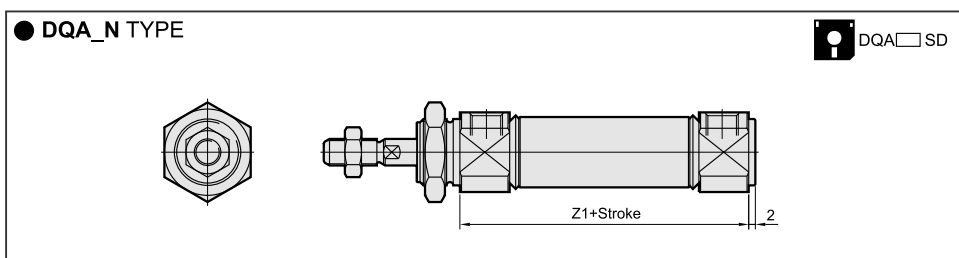
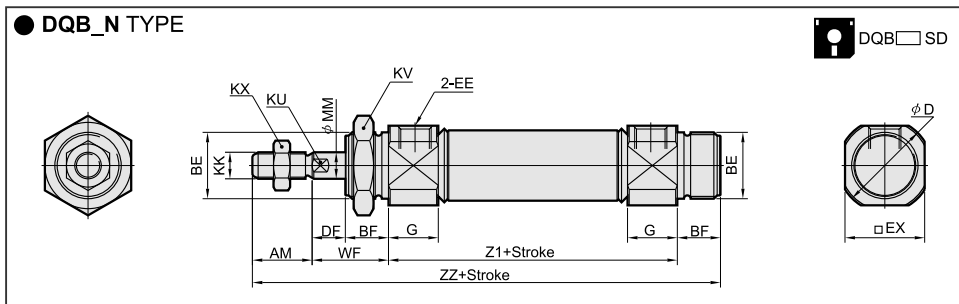




Dimensional features of double acting cylinders



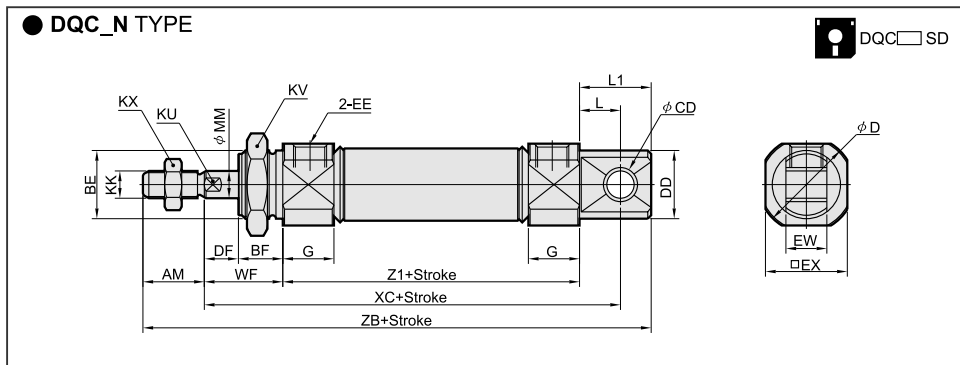
Dimensional Table

Bore	AM	BE	BF	D	DF	EE	EX	G	KK	KU	KV	KX	MM	WF	Z1	ZM	ZZ
φ 20	18	M20 × 1.5	13	28	10	G 1/8	24	15	M8 × 1.25	7	27	14	8	23	62	108	116
φ 25	22	M26 × 1.5	13	33.5	10	G 1/8	30	15	M10 × 1.25	9	32	17	10	23	62	108	120
φ 32	22	M26 × 1.5	13	37.5	10	G 1/8	34.5	15	M10 × 1.25	10	32	17	12	23	64	110	122
φ 40	24	M32 × 2.0	16	46.5	10	G 1/4	42.5	21.5	M14 × 1.5	14	41	22	16	26	88	140	154

- DA
- DP
- DS
- DQ
- DB
- DN
- BN
- ST
- NT
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- DJ
- TA
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- GS
- GM
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- RT
- CT
- CH



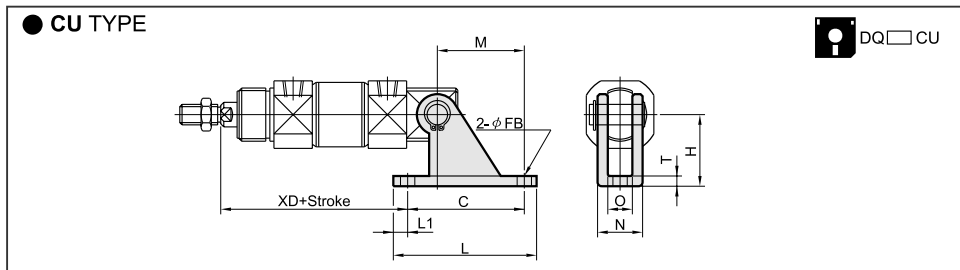
Dimensional features of double acting cylinders



Dimensional Table

Bore	AM	BE	BF	CD	D	DD	DF	EE	EX	EW	G	KK	KU	KV	KX	L	L1	MM	WF	XC	Z1	ZB
φ 20	18	M20×1.5	13	8	28	20	10	G 1/8	24	12	15	M8×1.25	7	27	14	12	21	8	23	97	62	124
φ 25	22	M26×1.5	13	8	33.5	22	10	G 1/8	30	12	15	M10×1.25	9	32	17	12	21	10	23	97	62	128
φ 32	22	M26×1.5	13	10	37.5	27	10	G 1/8	34.5	20	15	M10×1.25	10	32	17	15	27	12	23	102	64	136
φ 40	24	M32×2.0	16	10	46.5	33	10	G 1/4	42.5	20	21.5	M14×1.5	14	41	22	15	27	16	26	129	88	165

Mounting Dimension of Double Acting Cylinders



Dimensional Table

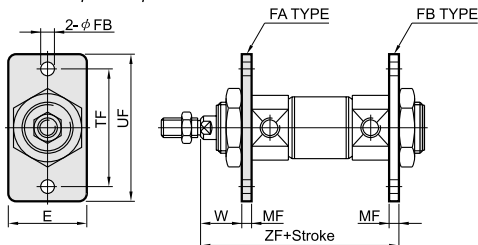
Type	Bore	C	FB	H	L	L1	M	N	O	T	XD
CU-20	φ 20	45	6.8	30	59	7	30	18.4	12	3.2	82
CU-25	φ 25	45	6.8	30	59	7	30	18.4	12	3.2	82
CU-32	φ 32	55	9	40	75	10	40	28	20	4	87
CU-40	φ 40	55	9	40	75	10	40	28	20	4	114



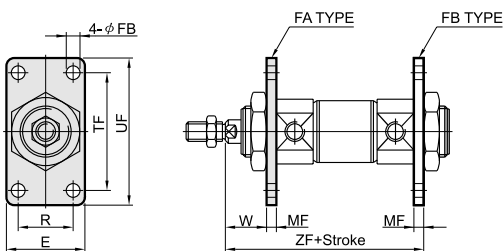
Mounting Dimension of Double Acting Cylinders

● FA(FB) TYPE

Bore φ 20 ~ φ 32



Bore φ 40

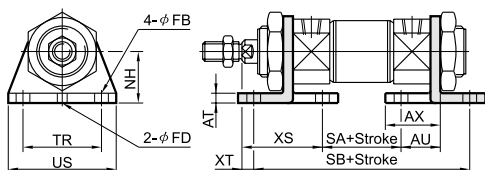


Dimensional Table

Type	Bore	E	FB	MF	R	TF	UF
FA-20	φ 20	34	7	4	-	60	75
FA-25	φ 25	40	7	4	-	60	75
FA-32	φ 32	40	7	4	-	60	75
FA-40	φ 40	52	7	5	36	66	82

Type	Bore	W	ZF
FA-20	φ 20	19	89
FA-25	φ 25	19	89
FA-32	φ 32	19	91
FA-40	φ 40	21	119

● LB TYPE

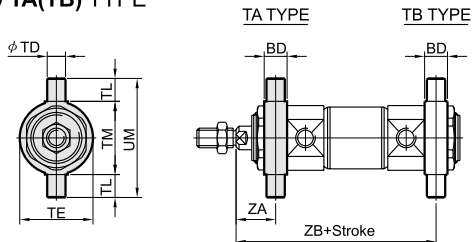


Dimensional Table

Type	Bore	AT	AU	AX	FB	FD	NH
LB-20	φ 20	3.2	20	28	7	4	25
LB-25	φ 25	3.2	20	28	7	4	28
LB-32	φ 32	3.2	20	28	7	4	28
LB-40	φ 40	3.2	23	33	7	4	30

Type	Bore	SA	SB	TR	US	XT	XS
LB-20	φ 20	28.4	102	40	55	3	39.8
LB-25	φ 25	28.4	102	40	55	3	39.8
LB-32	φ 32	30.4	104	40	55	3	39.8
LB-40	φ 40	48.4	134	55	75	3	45.8

● TA(TB) TYPE



Dimensional Table

Type	Bore	BD	TD	TE	TL	TM	UM
TA-20	φ 20	10	8	32	10	32	52
TA-25	φ 25	10	9	40	10	40	60
TA-32	φ 32	10	9	40	10	40	60
TA-40	φ 40	11	10	53	12	53	77

Type	Bore	ZA	ZB
TA-20	φ 20	18	90
TA-25	φ 25	18	90
TA-32	φ 32	18	92
TA-40	φ 40	20.5	119.5

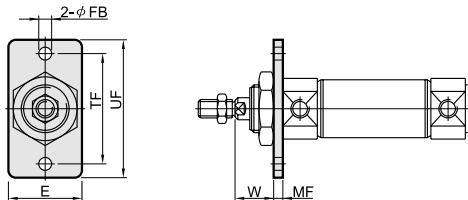
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- DP
- DS
- DQ**
- DB
- DN
- BN
- ST
- NT
- DU
- DJ
- TA
- GP
- GS
- GM
- GT
- RT
- CT
- CH



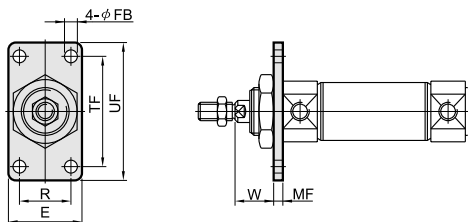
Mounting Dimension of Double Acting Cylinders

● FA TYPE

Bore φ 20 ~ φ 32



Bore φ 40

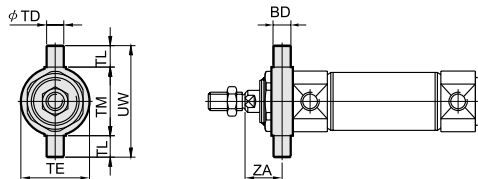


Dimensional Table

Type	Bore	E	FB	MF	R	TF
FA-20	φ 20	34	7	4	-	60
FA-25	φ 25	40	7	4	-	60
FA-32	φ 32	40	7	4	-	60
FA-40	φ 40	52	7	5	36	66

Type	Bore	UF	W			
FA-20	φ 20	75	19			
FA-25	φ 25	75	19			
FA-32	φ 32	75	19			
FA-40	φ 40	82	21			

● TA TYPE



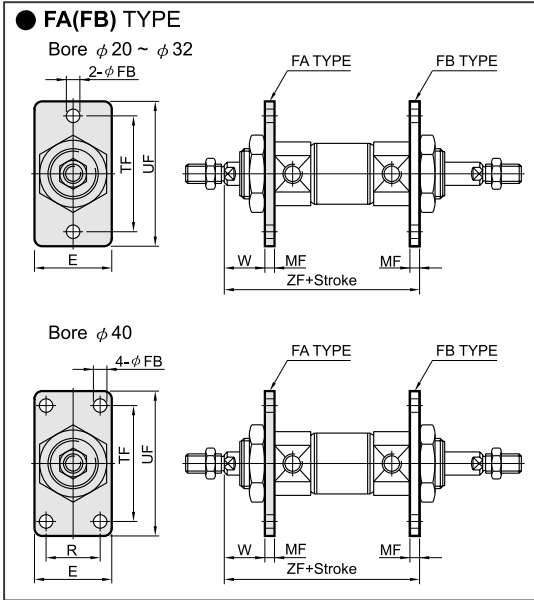
Dimensional Table

Type	Bore	BD	TD	TE	TL	TM
TA-20	φ 20	10	8	32	10	32
TA-25	φ 25	10	9	40	10	40
TA-32	φ 32	10	9	40	10	40
TA-40	φ 40	11	10	53	12	53

Type	Bore	UM	ZA			
TA-20	φ 20	52	18			
TA-25	φ 25	60	18			
TA-32	φ 32	60	18			
TA-40	φ 40	77	20,5			



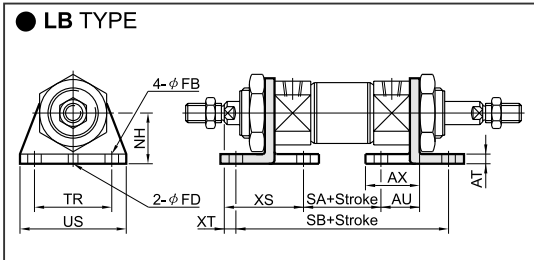
Mounting Dimension of Double Acting Cylinders



Dimensional Table

Type	Bore	E	FB	MF	R	TF	UF
FA-20	φ 20	34	7	4	-	60	75
FA-25	φ 25	40	7	4	-	60	75
FA-32	φ 32	40	7	4	-	60	75
FA-40	φ 40	52	7	5	36	66	82

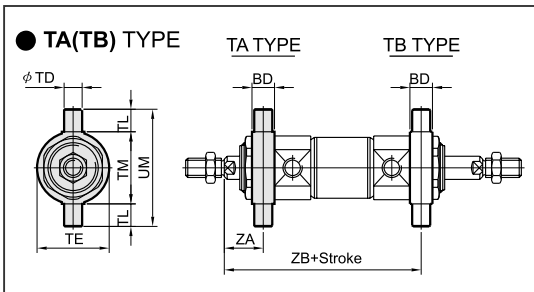
Type	Bore	W	ZF
FA-20	φ 20	19	89
FA-25	φ 25	19	89
FA-32	φ 32	19	91
FA-40	φ 40	21	119



Dimensional Table

Type	Bore	AT	AU	AX	FB	FD	NH
LB-20	φ 20	3.2	20	28	7	4	25
LB-25	φ 25	3.2	20	28	7	4	28
LB-32	φ 32	3.2	20	28	7	4	28
LB-40	φ 40	3.2	23	33	7	4	30

Type	Bore	SA	SB	TR	US	XT	XS
LB-20	φ 20	28.4	102	40	55	3	39.8
LB-25	φ 25	28.4	102	40	55	3	39.8
LB-32	φ 32	30.4	104	40	55	3	39.8
LB-40	φ 40	48.4	134	55	75	3	45.8



Dimensional Table

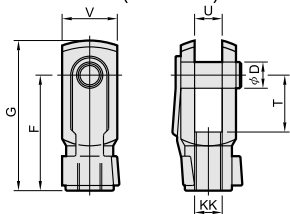
Type	Bore	BD	TD	TE	TL	TM	UM
TA-20	φ 20	10	8	32	10	32	52
TA-25	φ 25	10	9	40	10	40	60
TA-32	φ 32	10	9	40	10	40	60
TA-40	φ 40	11	10	53	12	53	77

Type	Bore	ZA	ZB
TA-20	φ 20	18	90
TA-25	φ 25	18	90
TA-32	φ 32	18	92
TA-40	φ 40	20.5	119.5

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- RT
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- CH

Accessories

● Y Rod Clevis (With Pin)



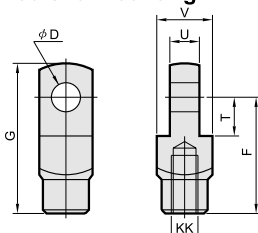
Dimensional Table

Type	Bore	D	F	G	KK	T	U	V
Y-M8 × 1.25	φ 20	8	32	42	M8 × 1.25	16	8	16
Y-M10 × 1.25	φ 25, φ 32	10	40	52	M10 × 1.25	20	10	20
Y-M14 × 1.5	φ 40	10	45	58	M14 × 1.5	20	14	25



Type	Filename
Y-M8 × 1.25	YM08125
Y-M10 × 1.25	YM10125
Y-M14 × 1.5	YM14150

● I Rod end mounting



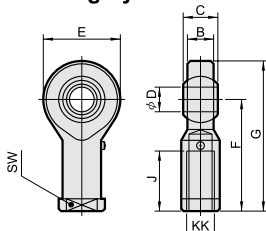
Dimensional Table

Type	Bore	D	F	G	KK	T	U	V
I-M8 × 1.25	φ 20	8	32	42	M8 × 1.25	11	8	16
I-M10 × 1.25	φ 25, φ 32	10	40	52	M10 × 1.25	13	10	19
I-M14 × 1.5	φ 40	10	45	57	M14 × 1.5	13	14	25.4



Type	Filename
I-M8 × 1.25	IM08125
I-M10 × 1.25	IM10125
I-M14 × 1.5	IM14150

● Oscillating Eye



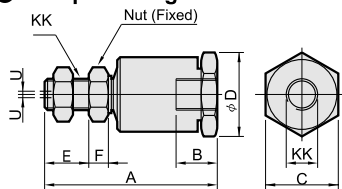
Dimensional Table

Type	Bore	B	C	D	E	F	G	J	KK	SW
G-M8 × 1.25	φ 20	9	12	8	22	36	47	17	M8 × 1.25	14
G-M10 × 1.25	φ 25, φ 32	10.5	14	10	26	43	56	21	M10 × 1.25	17
G-M14 × 1.5	φ 40	13.5	19	14	34	57	74	27	M14 × 1.5	22



Type	Filename
G-M8 × 1.25	GM08125
G-M10 × 1.25	GM10125
G-M14 × 1.5	GM14150

● Compensating Joint



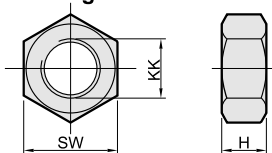
Dimensional Table

Type	Bore	A	B	C	D	E	F	KK	U
K-M8 × 1.25	φ 20	47	11	19	20	14.5	5	M8 × 1.25	0.75
K-M10 × 1.25	φ 25, φ 32	54	13	24	25.5	14.5	6	M10 × 1.25	1
K-M14 × 1.5	φ 40	70	17	29	31	19	8	M14 × 1.5	1.15



Type	Filename
K-M8 × 1.25	KM08125
K-M10 × 1.25	KM10125
K-M14 × 1.5	KM14150

● Mounting Nut



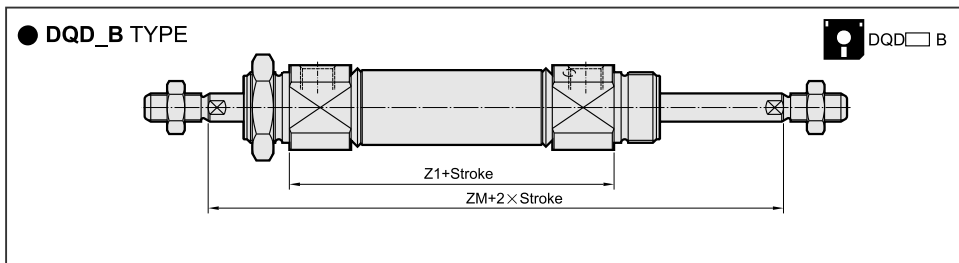
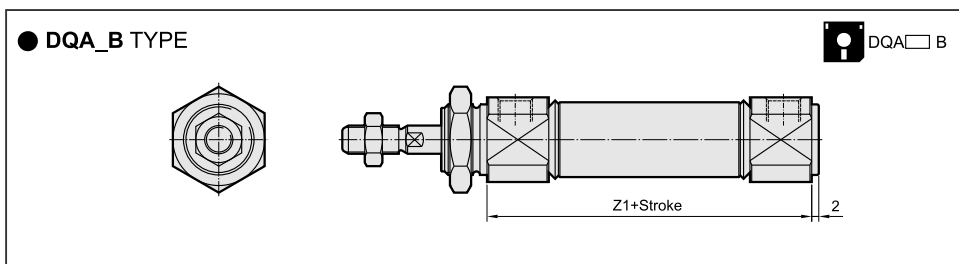
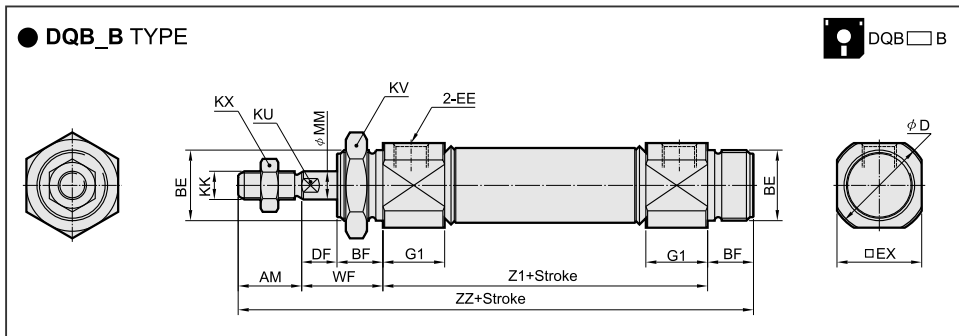
Dimensional Table

Type	Bore	H	KK	SW	Type	Filename
N-M8 × 1.25	φ 20	5	M8 × 1.25	14	N-M8 × 1.25	NM08125
N-M10 × 1.25	φ 25, φ 32	6	M10 × 1.25	17	N-M10 × 1.25	NM10125
N-M14 × 1.5	φ 40	8	M14 × 1.5	22	N-M14 × 1.5	NM14150
N-M20 × 1.5	φ 20	8	M20 × 1.5	27	N-M20 × 1.5	NM20150
N-M26 × 1.5	φ 25, φ 32	8	M26 × 1.5	32	N-M26 × 1.5	NM26150
N-M32 × 2.0	φ 40	8	M32 × 2.0	41	N-M32 × 2.0	NM32200





Dimensional features of single acting cylinders (with end cushion)



Dimensional Table

Bore	AM	BE	BF	D	DF	EE	EX	G1	KK	KU	KV	KX	MM	WF	Z1	ZM	ZZ
φ 20	18	M20×1.5	13	28	10	G 1/8	24	17.5	M8×1.25	7	27	14	8	23	62	108	116
φ 25	22	M26×1.5	13	33.5	10	G 1/8	30	17.5	M10×1.25	9	32	17	10	23	62	108	120
φ 32	22	M26×1.5	13	37.5	10	G 1/8	34.5	17.5	M10×1.25	10	32	17	12	23	64	110	122
φ 40	24	M32×2.0	16	46.5	10	G 1/4	42.5	21.5	M14×1.5	14	41	22	16	26	88	140	154

DA

DP

DS

DQ

DB

DN

BN

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NT

DU

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TA

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GM

GT

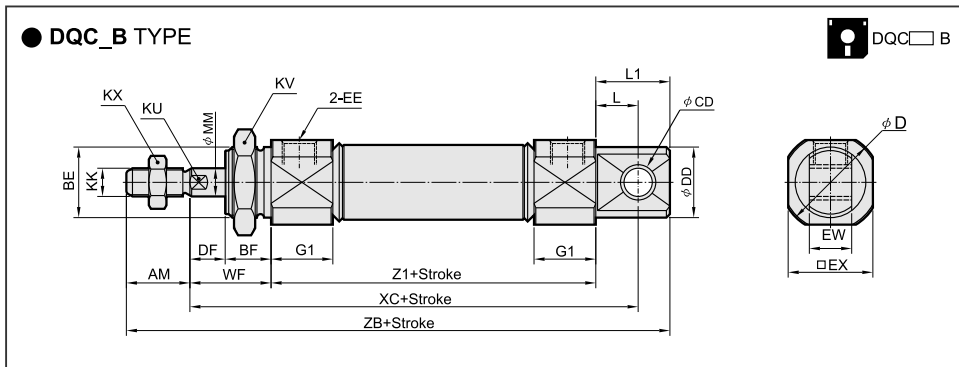
RT

CT

CH



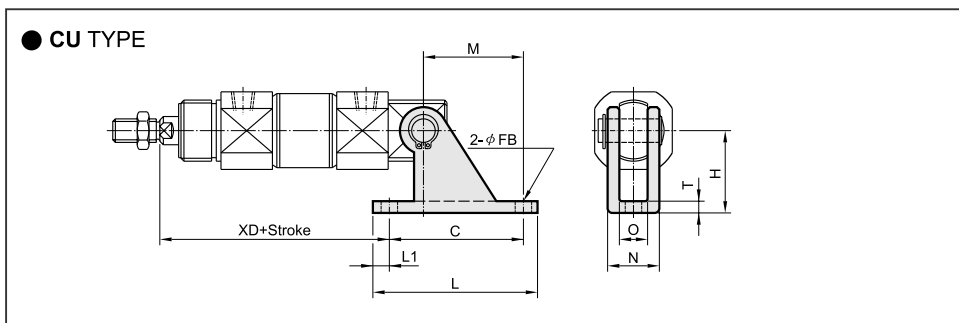
Dimensional features of single acting cylinders (with end cushion)



Dimensional Table

Bore	AM	BE	BF	CD	D	DD	DF	EE	EX	EW	G1	KK	KU	KV	KX	L	L1	MM	WF	XC	Z1	ZB
φ 20	18	M20×1.5	13	8	28	20	10	G 1/8	24	12	17.5	M8×1.25	7	27	14	12	21	8	23	97	62	124
φ 25	22	M26×1.5	13	8	33.5	22	10	G 1/8	30	12	17.5	M10×1.25	9	32	17	12	21	10	23	97	62	128
φ 32	22	M26×1.5	13	10	37.5	27	10	G 1/8	34.5	20	17.5	M10×1.25	10	32	17	15	27	12	23	102	64	136
φ 40	24	M32×2.0	16	10	46.5	33	10	G 1/4	42.5	20	21.5	M14×1.5	14	41	22	15	27	16	26	129	88	165

Mounting Dimension of Double Acting Cylinders (with end cushion)



Dimensional Table

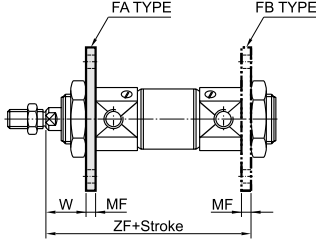
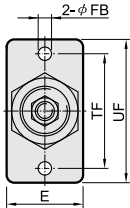
Type	Bore	C	FB	H	L	L1	M	N	O	T	XD
CU-20	φ 20	45	6.8	30	59	7	30	18.4	12	3.2	82
CU-25	φ 25	45	6.8	30	59	7	30	18.4	12	3.2	82
CU-32	φ 32	55	9	40	75	10	40	28	20	4	87
CU-40	φ 40	55	9	40	75	10	40	28	20	4	114



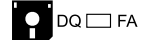
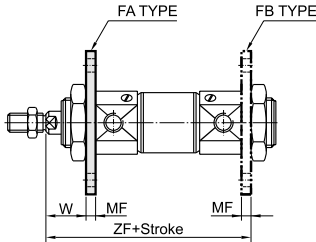
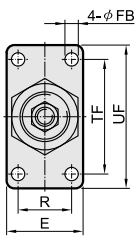
Mounting Dimension of Double Acting Cylinders (with end cushion)

●FA(FB) TYPE

Bore φ 20 ~ φ 32



Bore φ 40

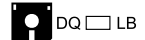
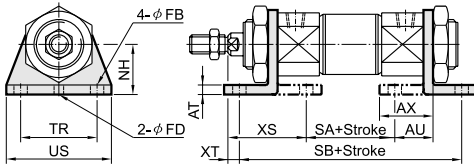


Dimensional Table

Type	Bore	E	FB	MF	R	TF	UF
FA-20	φ 20	34	7	4	-	60	75
FA-25	φ 25	40	7	4	-	60	75
FA-32	φ 32	40	7	4	-	60	75
FA-40	φ 40	52	7	5	36	66	82

Type	Bore	W	ZF
FA-20	φ 20	19	89
FA-25	φ 25	19	89
FA-32	φ 32	19	91
FA-40	φ 40	21	119

●LB TYPE

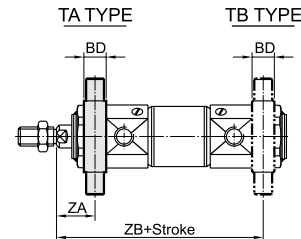
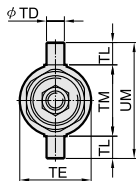


Dimensional Table

Type	Bore	AT	AU	AX	FB	FD	NH
LB-20	φ 20	3.2	20	28	7	4	25
LB-25	φ 25	3.2	20	28	7	4	28
LB-32	φ 32	3.2	20	28	7	4	28
LB-40	φ 40	3.2	23	33	7	4	30

Type	Bore	SA	SB	TR	US	XT	XS
LB-20	φ 20	28.4	102	40	55	3	39.8
LB-25	φ 25	28.4	102	40	55	3	39.8
LB-32	φ 32	30.4	104	40	55	3	39.8
LB-40	φ 40	48.4	134	55	75	3	45.8

●TA(FB) TYPE



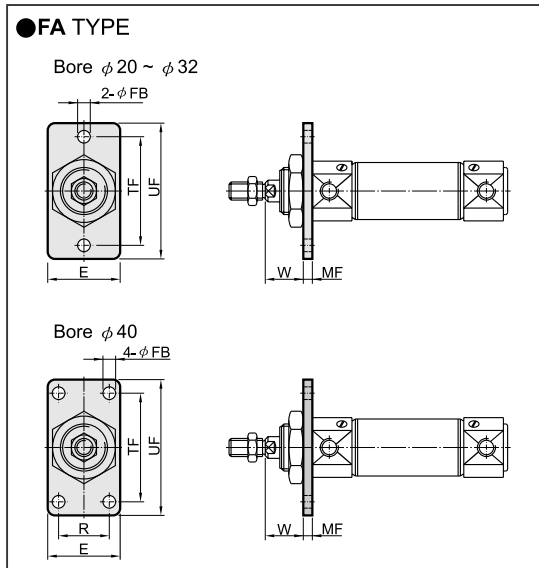
Dimensional Table

Type	Bore	BD	TD	TE	TL	TM	UM
TA-20	φ 20	10	8	32	10	32	52
TA-25	φ 25	10	9	40	10	40	60
TA-32	φ 32	10	9	40	10	40	60
TA-40	φ 40	11	10	53	12	53	77

Type	Bore	ZA	ZB
TA-20	φ 20	18	90
TA-25	φ 25	18	90
TA-32	φ 32	18	92
TA-40	φ 40	20.5	119.5

- DA
- DP
- DS
- DQ
- DB
- DN
- BN
- ST
- NT
- DU
- DJ
- TA
- GP
- GS
- GM
- GT
- RT
- CT
- CH

Mounting Dimension of Double Acting Cylinders (with end cushion)

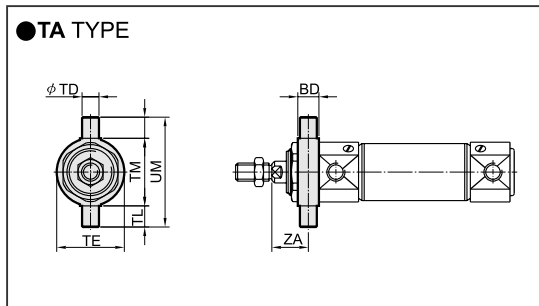


Dimensional Table



Type	Bore	E	FB	MF	R	TF
FA-20	φ 20	34	7	4	-	60
FA-25	φ 25	40	7	4	-	60
FA-32	φ 32	40	7	4	-	60
FA-40	φ 40	52	7	5	36	66

Type	Bore	UF	W
FA-20	φ 20	75	19
FA-25	φ 25	75	19
FA-32	φ 32	75	19
FA-40	φ 40	82	21



Dimensional Table

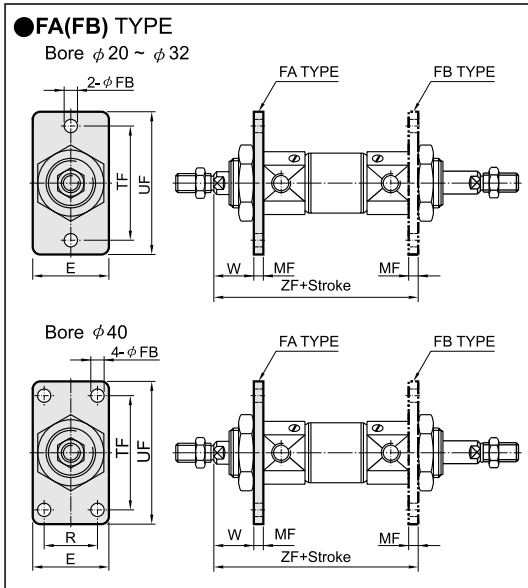


Type	Bore	BD	TD	TE	TL	TM
TA-20	φ 20	10	8	32	10	32
TA-25	φ 25	10	9	40	10	40
TA-32	φ 32	10	9	40	10	40
TA-40	φ 40	11	10	53	12	53

Type	Bore	UM	ZA
TA-20	φ 20	52	18
TA-25	φ 25	60	18
TA-32	φ 32	60	18
TA-40	φ 40	77	20.5



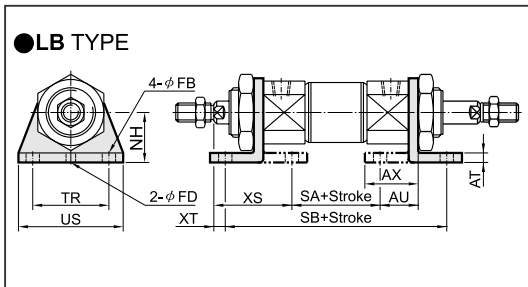
Mounting Dimension of Double Acting Cylinders (with end cushion)



Dimensional Table

Type	Bore	E	FB	MF	R	TF	UF
FA-20	φ 20	34	7	4	-	60	75
FA-25	φ 25	40	7	4	-	60	75
FA-32	φ 32	40	7	4	-	60	75
FA-40	φ 40	52	7	5	36	66	82

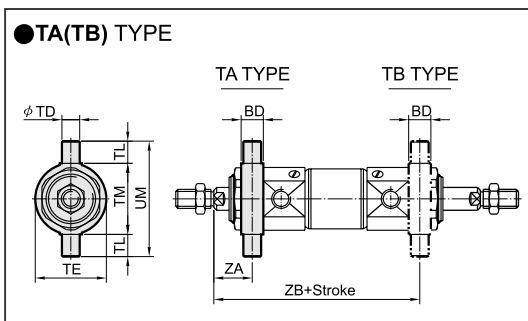
Type	Bore	W	ZF
FA-20	φ 20	19	89
FA-25	φ 25	19	89
FA-32	φ 32	19	91
FA-40	φ 40	21	119



Dimensional Table

Type	Bore	AT	AU	AX	FB	FD	NH
LB-20	φ 20	3.2	20	28	7	4	25
LB-25	φ 25	3.2	20	28	7	4	28
LB-32	φ 32	3.2	20	28	7	4	28
LB-40	φ 40	3.2	23	33	7	4	30

Type	Bore	SA	SB	TR	US	XT	XS
LB-20	φ 20	28.4	102	40	55	3	39.8
LB-25	φ 25	28.4	102	40	55	3	39.8
LB-32	φ 32	30.4	104	40	55	3	39.8
LB-40	φ 40	48.4	134	55	75	3	45.8



Dimensional Table

Type	Bore	BD	TD	TE	TL	TM	UM
TA-20	φ 20	10	8	32	10	32	52
TA-25	φ 25	10	9	40	10	40	60
TA-32	φ 32	10	9	40	10	40	60
TA-40	φ 40	11	10	53	12	53	77

Type	Bore	ZA	ZB
TA-20	φ 20	18	90
TA-25	φ 25	18	90
TA-32	φ 32	18	92
TA-40	φ 40	20.5	119.5

DA

DP

DS

DQ

DB

DN

BN

ST

NT

DU

DJ

TA

GP

GS

GM

GT

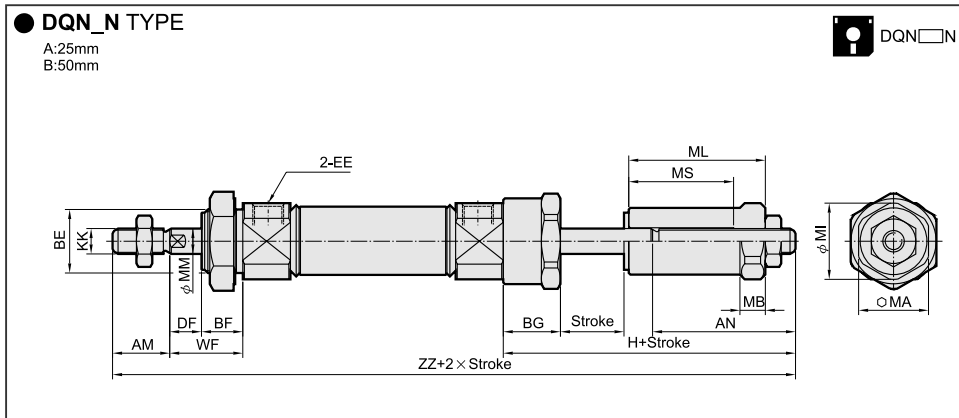
RT

CT

CH

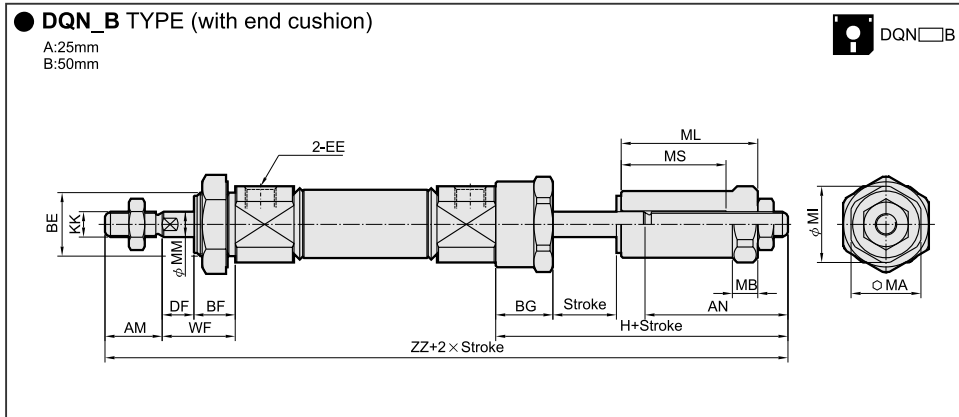


Dimensional features



Dimensional Table

Bore	AN		AM	BE	BF	BG	DF	EE	H		KK	MA	MB	MI	ML		MM	MS		WF	ZZ	
	A	B							A	B					A	B		A	B		A	B
φ 20	44	69	18	M20×1.5P	13	18	10	G 1/8	71	96	M8×1.25P	22	8	24	43	68	8	33	58	23	174	199
φ 25	46	71	22	M26×1.5P	13	18	10	G 1/8	74	99	M10×1.25P	22	8	24	45	70	10	35	60	23	181	206
φ 32	49	74	22	M26×1.5P	13	18	10	G 1/8	77	102	M10×1.25P	27	10	29	47	72	12	35	60	23	186	211
φ 40	50	75	24	M32×2.0P	16	21	10	G 1/4	81	106	M14×1.5P	32	10	35	47	72	16	37	62	26	219	244

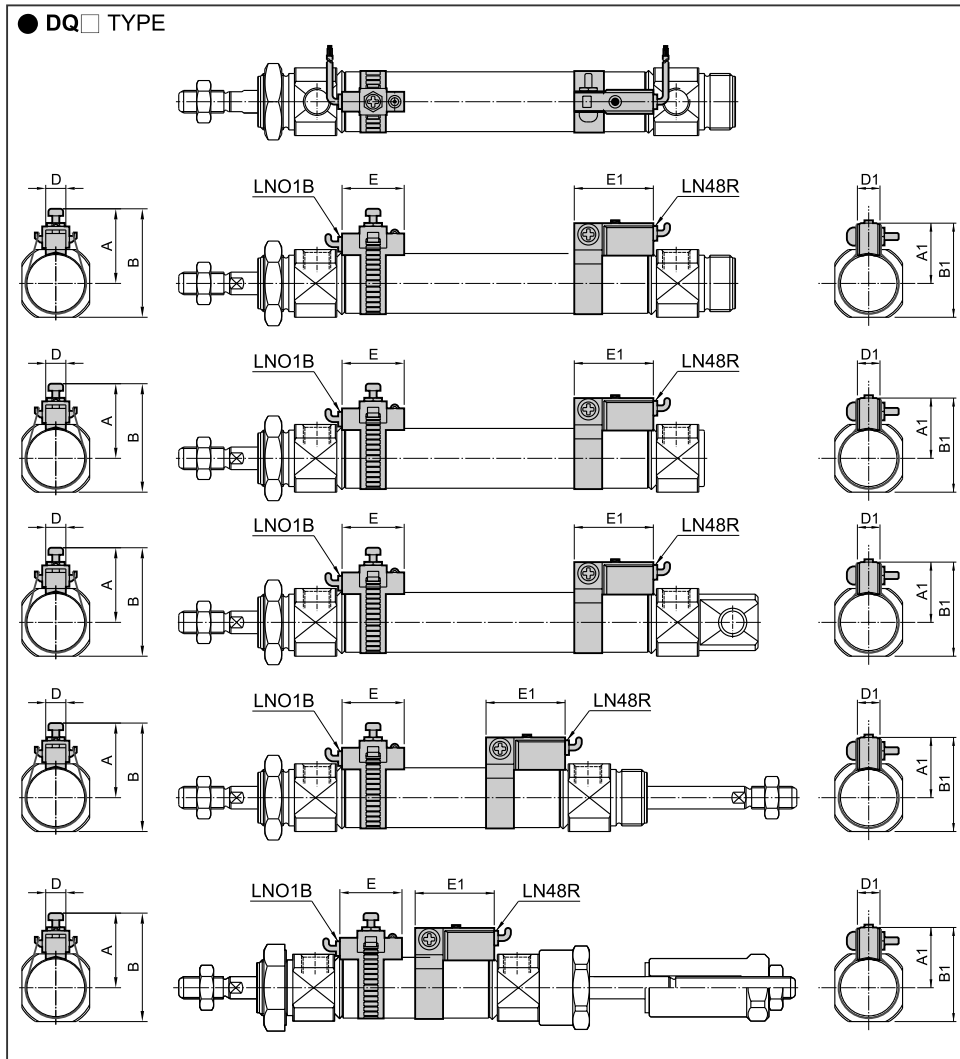


Dimensional Table

Bore	AN		AM	BE	BF	BG	DF	EE	H		KK	MA	MB	MI	ML		MM	MS		WF	ZZ	
	A	B							A	B					A	B		A	B		A	B
φ 20	44	69	18	M20×1.5P	13	18	10	G 1/8	71	96	M8×1.25P	22	8	24	43	68	8	33	58	23	174	199
φ 25	46	71	22	M26×1.5P	13	18	10	G 1/8	74	99	M10×1.25P	22	8	24	45	70	10	35	60	23	181	206
φ 32	49	74	22	M26×1.5P	13	18	10	G 1/8	77	102	M10×1.25P	27	10	29	47	72	12	35	60	23	186	211
φ 40	50	75	24	M32×2.0P	16	21	10	G 1/4	81	106	M14×1.5P	32	10	35	47	72	16	37	62	26	219	244



Installation of sensor switches



DA

DP

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CH

Dimensional Table

Bore	Sensor switch	A	B	D	E
φ 20	LN01B	25.5	37.5	7	22
φ 25	LN01B	28.4	43.4	7	22
φ 32	LN01B	32	49.3	7	22
φ 40	LN01B	36.3	57	7	22

Bore	Sensor switch	Clamp NO.	A1	B1	D1	E1
φ 20	LN48R	BS-S20	22	34	8	28
φ 25	LN48R	BS-S25	24	39	8	28
φ 32	LN48R	BS-S32	28	45.5	8	28
φ 40	LN48R	BS-S40	32	53	8	28