

Double acting cylinders

DNB

Double Acting - Single End Rod Type



DNB..M

Double Acting - Single End Rod Type (piston with magnet)



DND

Double Acting - Double End Rod Type



DND..M

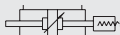
Double Acting - Double End Rod Type (piston with magnet)



DNN..N..A, DNN..N..B

Adjustable Forward Stroke Cylinder

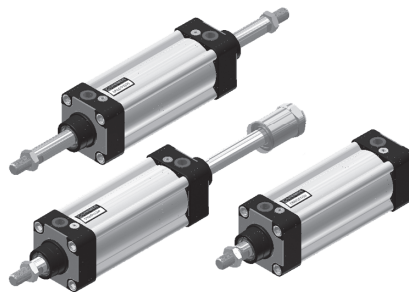
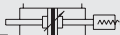
A:25mm
B:50mm



DNN..M..A, DNN..M..B

Adjustable Forward Stroke Cylinder (piston with magnet)

A:25mm
B:50mm



- DN Series cylinders according to ISO 6431 (Bore sizes φ 32 ~ φ 100)
- DN series is made with simple structure of high rigidity and strength.
- Pistons of complete series are made of light and wearproof plastic steel.
- Buffer pad for noise reduction.

Specification

Bore sizes of cylinder (mm)	φ 32	φ 40	φ 50	φ 63	φ 80	φ 100
Standard stroke (mm)	25,50,75,100,125,150,175,200,250,300,350,400,450,500					
The range of stroke (mm)	Stroke till 2500mm by request					
Power fluid	Filtered air with or without lubrication					
Material of cylinder barrel	Aluminium extrusion, Anodised 20 microns					
The range of pressure (MPa)	0.1~1.03					
The range of temperature (°C)	-10~+60					

How to order

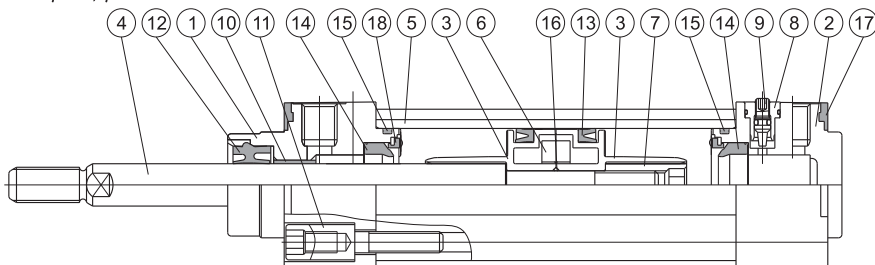
DNN	50	N	125	B	FA — Y —	LN01A	×	2
Type	Bore	Magnet	Stroke	Adjustable stroke	Accessory	Sensor switch		Quantity
 DNB DND DNN	32—φ 32mm 40—φ 40mm 50—φ 50mm 63—φ 63mm 80—φ 80mm 100—φ 100mm	M: With magnet N: No magnet	25—25mm 50—50mm 75—75mm 100—100mm 125—125mm 150—150mm 175—175mm 200—200mm 250—250mm 300—300mm 350—350mm 400—400mm 450—450mm 500—500mm	None: standard A: Adjustable 25mm B: Adjustable 50mm Note: this number can only be used for the adjustable type.	 FA FB TC CA CB LB CG CD Y	 LN01A Note: 1.Can choose NPN or PNP type (3-Wire type, 24VDC). 2.Can choose plug-in cable.		1: 1pc 2: 2pcs
						 G K		

How to order the seal kit

DNSK

Bore	Seal kit
32	DNSK32 - Including No.12,13,14,15
40	DNSK40 - Including No.12,13,14,15,16
50	DNSK50 - Including No.12,13,14,15,16
63	DNSK63 - Including No.12,13,14,15,16
80	DNSK80 - Including No.12,13,14,15,16
100	DNSK100 - Including No.12,13,14,15,16

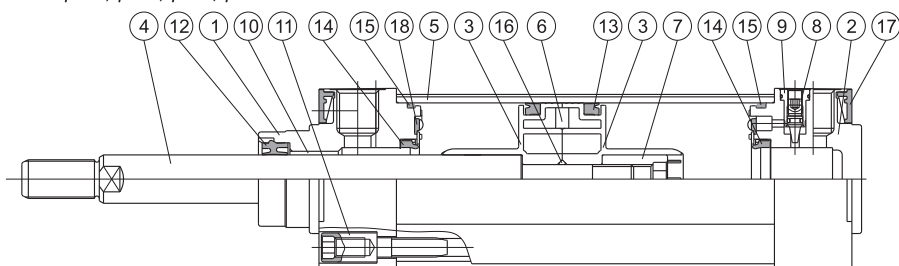
● Bore φ 32, φ 40



Parts List

No.	part name	Quantity	No.	part name	Quantity	No.	part name	Quantity
1	Rod cover	1	7	Piston nut	1	13	Piston packing	2
2	Head cover	1	8	Cushion needle	2	14	Cushion packing	2
3	Piston	2	9	Cushion plug	2	15	Cylinder gasket	2
4	Piston rod	1	10	Oilless bearing	1	16	Piston gasket	1
5	Cylinder tube	1	11	Tie bolt	8	17	Dust cover	2
6	Magnet	1	12	Rod packing	1	18	Bumper	2

● Bore φ 50, φ 63, φ 80, φ 100



Parts List

No.	part name	Quantity	No.	part name	Quantity	No.	part name	Quantity
1	Rod cover	1	7	Piston nut	1	13	Piston packing	2
2	Head cover	1	8	Cushion needle	2	14	Cushion packing	2
3	Piston	2	9	Cushion plug	2	15	Cylinder gasket	2
4	Piston rod	1	10	Oilless bearing	1	16	Piston gasket	1
5	Cylinder tube	1	11	Tie bolt	8	17	Dust cover	2
6	Magnet	1	12	Rod packing	1	18	Bumper	2

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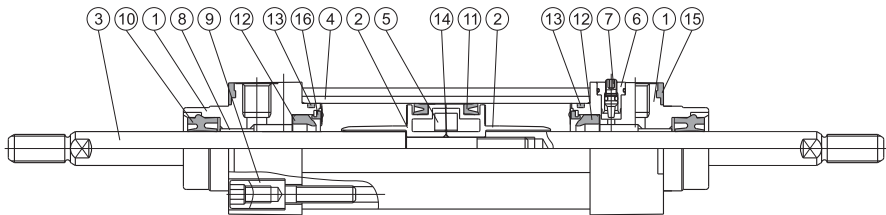
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How to order the seal kit

DNSDK

Bore	Seal kit
32	DNSDK32 - Including No.10,11,12,13
40	DNSDK40 - Including No.10,11,12,13,14
50	DNSDK50 - Including No.10,11,12,13,14
63	DNSDK63 - Including No.10,11,12,13,14
80	DNSDK80 - Including No.10,11,12,13,14
100	DNSDK100 - Including No.10,11,12,13,14

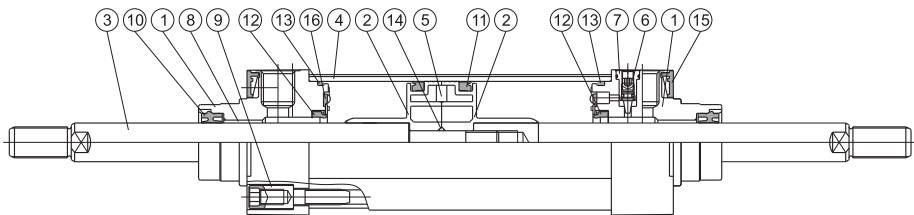
● Bore φ 32, φ 40



Parts List

No.	part name	Quantity	No.	part name	Quantity	No.	part name	Quantity
1	Rod cover	2	7	Cushion plug	2	13	Cylinder gasket	2
2	Piston	2	8	Oilless bearing	2	14	Piston gasket	1
3	Piston rod	1	9	Tie bolt	8	15	Dust cover	2
4	Cylinder tube	1	10	Rod packing	2	16	Buffer pad	2
5	Magnet	1	11	Piston packing	2			
6	Cushion needle	2	12	Cushion packing	2			

● Bore φ 50, φ 63, φ 80, φ 100

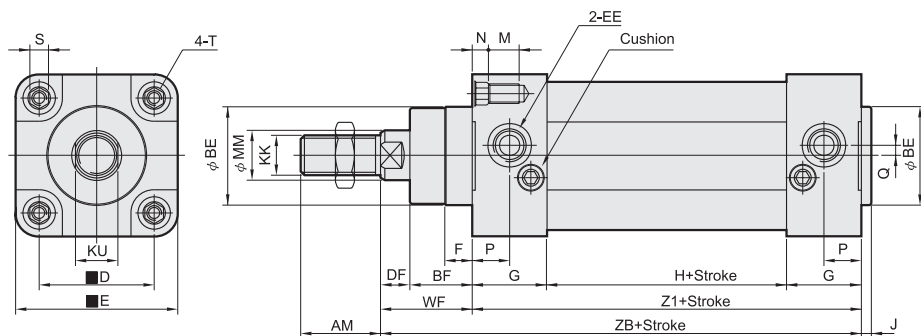


Parts List

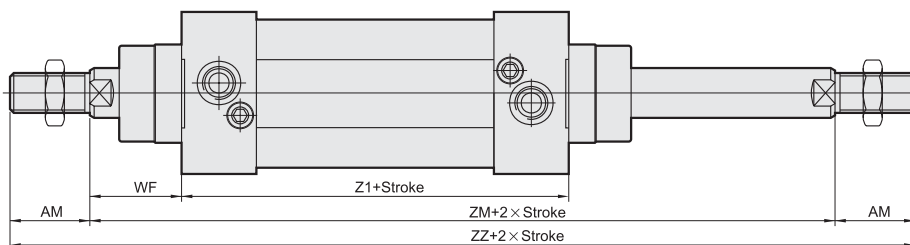
No.	part name	Quantity	No.	part name	Quantity	No.	part name	Quantity
1	Rod cover	2	7	Cushion plug	2	13	Cylinder gasket	2
2	Piston	2	8	Oilless bearing	2	14	Piston gasket	1
3	Piston rod	2	9	Tie bolt	8	15	Dust cover	2
4	Cylinder tube	1	10	Rod packing	2	16	Buffer pad	2
5	Magnet	1	11	Piston packing	2			
6	Cushion needle	2	12	Cushion packing	2			

Dimensional features

● DNB TYPE



● DND TYPE



Dimensional Table

Bore	AM	BE	BF	D	DF	E	EE	F	G	H	J	KK	KU	M	MM	N	P	Q	S	T	WF	Z1	ZB	ZM	ZZ
φ 32	22	30	16	32.5	10	47	G 1/8	7	26	42	4	M10×1.25	10	9	12	6	13	4.5	6	M6	26	94	120	146	190
φ 40	24	35	20	38	10	53	G 1/4	9	30	45	4	M12×1.25	14	9	16	6	15	5	6	M6	30	105	135	165	213
φ 50	32	40	25	46.5	12	65	G 1/4	11	30	46	4	M16×1.5	17	12	20	6	15	6	8	M8	37	106	143	180	244
φ 63	32	45	25	56.5	12	75	G 3/8	4	32	57	4	M16×1.5	17	12	20	6	16	8	8	M8	37	121	158	195	259
φ 80	40	45	33	72	13	95	G 3/8	15	38	52	6	M20×1.5	22	16	25	6	19	9	10	M10	46	128	174	220	300
φ 100	40	55	35	89	16	115	G 1/2	15	40	58	6	M20×1.5	22	16	25	6	20	7	10	M10	51	138	189	240	320

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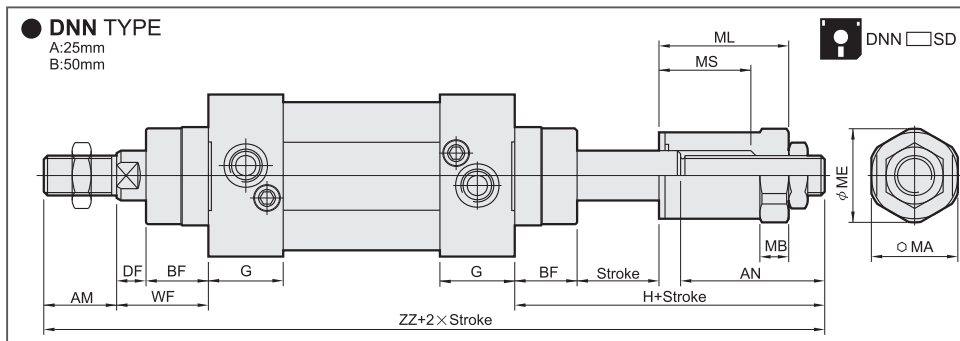
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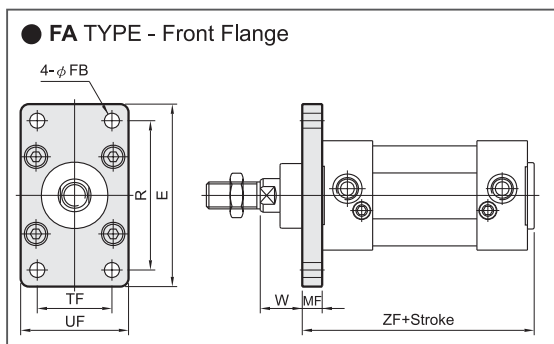
Dimensional features



Dimensional Table

Bore	AM	AN		BF	DF	G	H		MA	MB	ME	ML		MS		WF	ZZ	
		A	B				A	B				A	B	A	B		A	B
φ 32	22	47	72	16	10	26	73	98	27	10	29	47	72	35	62	26	215	240
φ 40	24	48	73	20	10	30	78	103	32	10	35	47	72	37	62	30	237	262
φ 50	32	52	77	25	12	30	92	117	41	12	44	56	81	41	66	37	267	292
φ 63	32	52	77	25	12	32	92	117	41	12	44	56	81	41	66	37	282	307
φ 80	40	58	83	33	13	38	107	132	50.8	15	55	63	88	43	68	46	321	346
φ 100	40	58	83	35	16	40	107	132	50.8	15	55	63	88	43	68	51	336	361

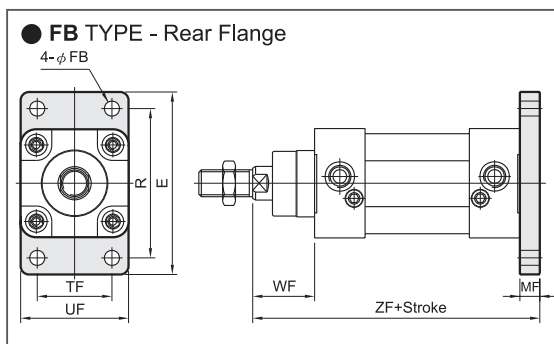
Accessories



Dimensional Table

□ DN □ FA

Bore	E	FB	MF	R	TF	UF	W	ZF
φ 32	79	7	10	64	32	50	16	108
φ 40	90	9	10	72	36	55	20	120
φ 50	110	9	12	90	45	65	25	123
φ 63	120	9	12	100	50	75	25	138
φ 80	153	12	16	126	63	95	30	150
φ 100	178	14	16	150	75	115	35	160



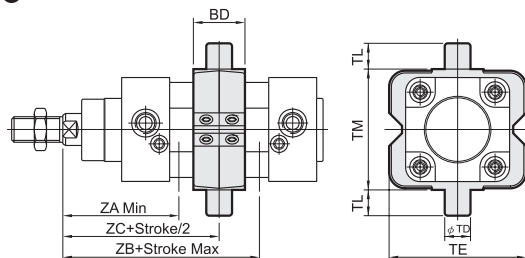
Dimensional Table

□ DN □ FB

Bore	E	FB	MF	R	TF	UF	W	ZF
φ 32	79	7	10	64	32	50	26	130
φ 40	90	9	10	72	36	55	30	145
φ 50	110	9	12	90	45	65	37	155
φ 63	120	9	12	100	50	75	37	170
φ 80	153	12	16	126	63	95	46	190
φ 100	178	14	16	150	75	115	51	205

Accessories

● TC TYPE - Intermediate Pivot



Dimensional Table



DN □ TC

Bore	BD	TD	TE	TL	TM	ZA	ZB	ZC
φ 32	22	12	58	12	50	63	83	73
φ 40	28	16	70	16	63	74	91	82.5
φ 50	32	16	85	16	75	83	97	90
φ 63	35	20	100	20	90	86.5	108.5	97.5
φ 80	40	20	120	20	110	104	116	110
φ 100	45	25	145	25	132	113.5	126.5	120

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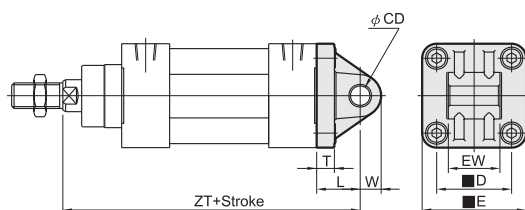
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● CA TYPE - Male Pivot



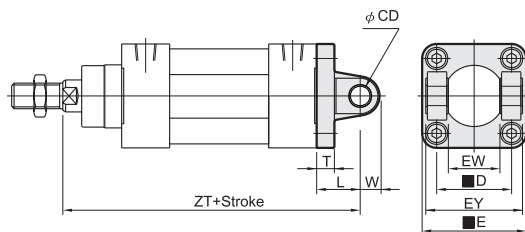
Dimensional Table



DN □ CA

Bore	CD	D	E	EW	L	T	W	ZT
φ 32	10	32.5	47	26	22	10	10.5	142
φ 40	12	38	53	28	25	10	13	160
φ 50	12	46.5	65	32	27	11	13	170
φ 63	16	56.5	75	40	32	11	17	190
φ 80	16	72	95	50	36	15	17	210
φ 100	20	89	115	60	41	15	21	230

● CB TYPE - Female Pivot



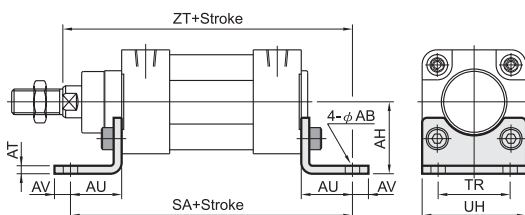
Dimensional Table



DN □ CB

Bore	CD	D	E	EW	EY	L	T	W	ZT
φ 32	10	32.5	47	26	45	22	10	10.5	142
φ 40	12	38	53	28	52	25	10	11	160
φ 50	12	46.5	65	32	60	27	11	12	170
φ 63	16	56.5	75	40	70	32	11	15	190
φ 80	16	72	95	50	90	36	15	17	210
φ 100	20	89	115	60	110	41	15	21	230

● LB TYPE - Foot Mounting



Dimensional Table

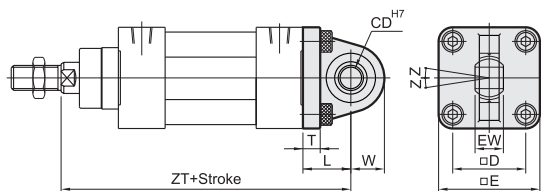


DN □ LB

Bore	AB	AH	AT	AU	AV	SA	TR	UH	ZT
φ 32	7	32	5	24	8	142	32	47	144
φ 40	9	36	5	28	10	161	36	53	163
φ 50	9	45	5	32	10	170	45	65	175
φ 63	9	50	5	32	10	185	50	75	190
φ 80	12	63	6	41	13	210	63	95	215
φ 100	14	71	6	41	15	220	75	115	230

Accessories

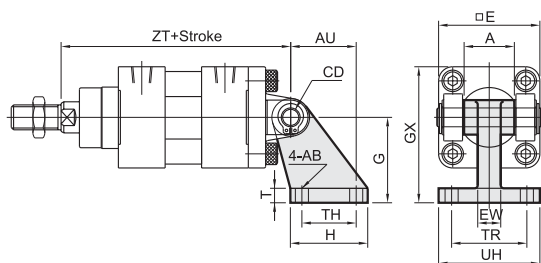
● CG TYPE - Male Pivot



Dimensional Table

Bore	CD	D	E	EW	L	T	W	Z	ZT
φ 32	10	32.5	47	14	22	10	17	13°	142
φ 40	12	38	53	16	25	10	20	13°	160
φ 50	12	46.5	65	16	27	11	22	13°	170
φ 63	16	56.5	75	21	32	11	26	15°	190
φ 80	16	72	95	21	36	15	28	15°	210
φ 100	20	89	115	25	41	15	32	15°	230

● CD TYPE

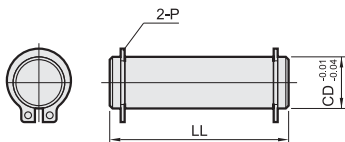


Dimensional Table

Bore	A	AB	AU	CD	E	EW	T	G	GX
φ 32	26	7	21	10	47	10	8	32	55.5
φ 40	28	7	24	12	53	12	10	36	62.5
φ 50	32	9	33	12	65	12	12	45	77.5
φ 63	40	9	37	16	75	15	12	50	87.5
φ 80	50	11	47	16	95	15	14	63	110.5
φ 100	60	11	55	20	115	22	15	71	128.5

Bore	H	TH	TR	UH	ZT
φ 32	31	18	38	51	142
φ 40	35	22	41	54	160
φ 50	45	30	50	65	170
φ 63	50	35	52	67	190
φ 80	60	40	66	86	210
φ 100	70	50	76	96	230

● CB Pin Type

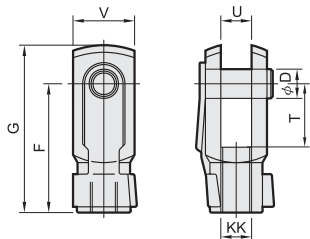


Dimensional Table

Bore	CD	LL	P
φ 32	10	53	STW-10
φ 40	12	62	STW-12
φ 50	12	69	STW-12
φ 63	16	80	STW-16
φ 80	16	100	STW-16
φ 100	20	122	STW-20

Accessories

● Y Rod Clevis (With Pin)



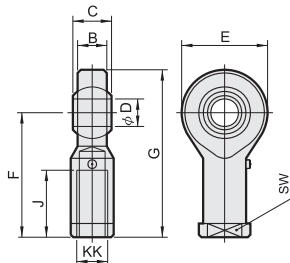
Dimensional Table

Type	Bore	D	F	G	KK	T	U	V
Y-M10×1.25	φ 32	10	40	52	M10×1.25	20	10	20
Y-M12×1.25	φ 40	12	48	62	M12×1.25	24	12	24
Y-M16×1.5	φ 50, φ 63	16	64	83	M16×1.5	32	16	32
Y-M20×1.5	φ 80, φ 100	20	80	105	M20×1.5	40	20	40



Type	Filename
Y-M10×1.25	YM10125
Y-M12×1.25	YM12125
Y-M16×1.5	YM16150
Y-M20×1.5	YM20150

● Oscillating Eye



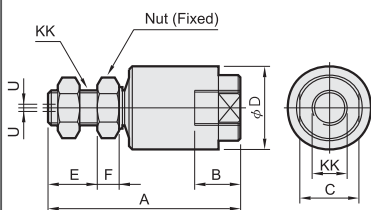
Dimensional Table

Type	Bore	B	C	D	E	F	G	J	KK	SW
G-M10×1.25	φ 32	10.5	14	10	28	43	57	20	M10×1.25	17
G-M12×1.25	φ 40	12	16	12	30	50	65	24	M12×1.25	19
G-M16×1.5	φ 50, φ 63	15	21	16	38	64	83	33	M16×1.5	22
G-M20×1.5	φ 80, φ 100	18	25	20	46	77	100	40	M20×1.5	30



Type	Filename
G-M10×1.25	GM10125
G-M12×1.25	GM12125
G-M16×1.5	GM16150
G-M20×1.5	GM20150

● Compensating Joint



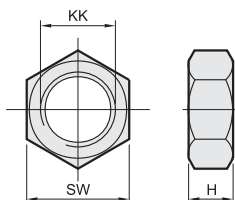
Dimensional Table

Type	Bore	A	B	C	D	E	F	KK	U
K-M10×1.25	φ 32	54	13	24	25.5	14.5	6	M10×1.25	1
K-M12×1.25	φ 40	70	17	29	31	19	7	M12×1.25	1.15
K-M16×1.5	φ 50, φ 63	88	21	27	38	29	8	M16×1.5	1.65
K-M20×1.5	φ 80, φ 100	105	25	32	50	27.5	16	M20×1.5	2.15



Type	Filename
K-M10×1.25	KM10125
K-M12×1.25	KM12125
K-M16×1.5	KM16150
K-M20×1.5	KM20150

● Mounting Nut



Dimensional Table

Type	Bore	H	KK	SW
N-M10×1.25	φ 32	6	M10×1.25	17
N-M12×1.25	φ 40	7	M12×1.25	19
N-M16×1.5	φ 50, φ 63	8	M16×1.5	24
N-M20×1.5	φ 80, φ 100	8	M20×1.5	27



Type	Filename
N-M10×1.25	NM10125
N-M12×1.25	NM12125
N-M16×1.5	NM16150
N-M20×1.5	NM20150

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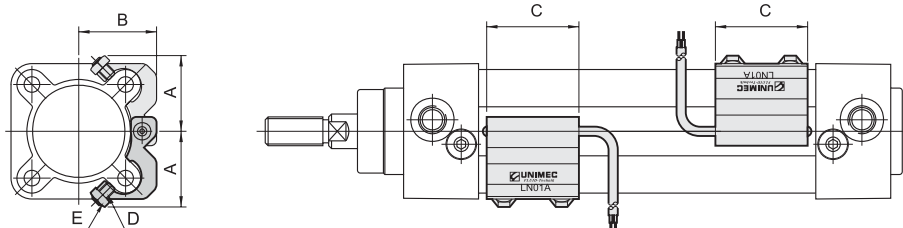
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Installation of sensor switches

● DN TYPE



Dimensional Table

Bore	Sensor switch	A	B	C	D	E
φ 32	LN01A	26.3	27	32	M4 × 12L	M4
φ 40	LN01A	29	32	32	M4 × 12L	M4
φ 50	LN02A	35.5	36.5	32	M4 × 12L	M4
φ 63	LN02A	40	43	32	M4 × 12L	M4
φ 80	LN03A	49.5	52	32	M4 × 12L	M4
φ 100	LN03A	57.5	62	32	M4 × 12L	M4

Cylinder Weight (Including The Mounting Nut)

Unit: kg

Bore	Basic weight DNB	Stroke 25 mm DNB	Basic weight DND	Stroke 25 mm DND	Basic weight DNN	Stroke 25 mm DNN	Basic weight DNN	Stroke 25 mm DNN
					Adjustable Stroke 25 mm		Adjustable Stroke 50 mm	
φ 32	0.56	0.056	0.62	0.078	0.78	0.078	0.86	0.078
φ 40	0.85	0.080	0.98	0.120	1.09	0.120	1.22	0.120
φ 50	1.22	0.117	1.46	0.179	1.82	0.179	2.07	0.179
φ 63	1.72	0.128	1.96	0.189	2.26	0.189	2.51	0.189
φ 80	3.25	0.188	3.69	0.285	4.45	0.285	4.79	0.285
φ 100	4.28	0.220	4.87	0.317	5.63	0.317	5.97	0.317

Mounting Weight (Including The Mounting Screws)

Unit: kg

Bore	FA FB	CA	CB	LB	TC	CD	CG	CB-Pin	Y
φ 32	0.224	0.225	0.197	0.170	0.104	0.175	0.179	0.032	0.088
φ 40	0.266	0.306	0.221	0.219	0.210	0.223	0.242	0.053	0.147
φ 50	0.480	0.473	0.420	0.344	0.328	0.383	0.387	0.061	0.335
φ 63	0.602	0.743	0.600	0.405	0.492	0.538	0.583	0.124	0.335
φ 80	1.424	1.366	1.134	0.839	0.740	0.906	1.047	0.156	0.677
φ 100	1.974	2.156	1.795	1.045	1.223	1.370	1.531	0.298	0.677

Bore	G	Nut(Rod)	Sensor switch
φ 32	0.080	0.008	0.065
φ 40	0.112	0.010	0.065
φ 50	0.202	0.017	0.066
φ 63	0.202	0.017	0.066
φ 80	0.368	0.020	0.086
φ 100	0.368	0.020	0.086

Multiple Position Cylinders

DNE

Double Acting - Back To Back Standard Type



DNZ

Double Acting - Face To Face Standard Type



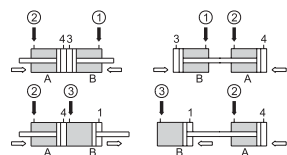
DNE..M

Double Acting - Back To Back With Magnetic Piston Type



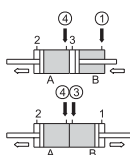
DNZ..M

Double Acting - Face To Face With Magnetic Piston Type



①② Air intake, cylinders A & B retract.

②③ Air intake, cylinder A retracts, cylinder B extends.



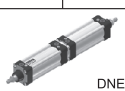
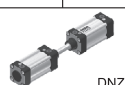
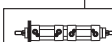
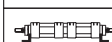
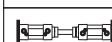
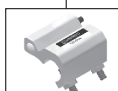
①④ Air intake, cylinder A extends, cylinder B retracts.

④③ Air intake, cylinders A & B extend.

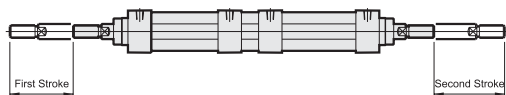
Specification

Bore sizes of cylinder (mm)	φ 32	φ 40	φ 50	φ 63	φ 80	φ 100
Standard stroke (mm)	Stroke by request					
The range of stroke (mm)	Max. 300					
Power fluid	Filtered air with or without lubrication					
Material of cylinder barrel	Aluminium extrusion, Anodised 20 microns					
The range of pressure (MPa)	0.1~1.03					
The range of temperature (°C)	-10~+60					

How to order

DNE	32	M	50 / 100	FA — Y — LN01A × 2			
Type	Bore	Magnet	A Stroke	B Stroke	Accessory	Sensor switch	Quantity
  DNE DNZ	32—φ 32mm 40—φ 40mm 50—φ 50mm 63—φ 63mm 80—φ 80mm 100—φ 100mm	M: With magnet N: No magnet	Strokes by request	Strokes by request	    FA LB FB CA	 LN01A: Suited for φ 32, φ 40 LN02A: Suited for φ 50, φ 63 LN03A: Suited for φ 80, φ 100 Note: 1: Can choose NDN or DND type	1: 1pc 2: 2pcs

Note:
1.Can choose NPN or PNP type (3-Wire type, 24VDC).
2.Can choose plug-in cable.
3.For details see page 4-1.1.



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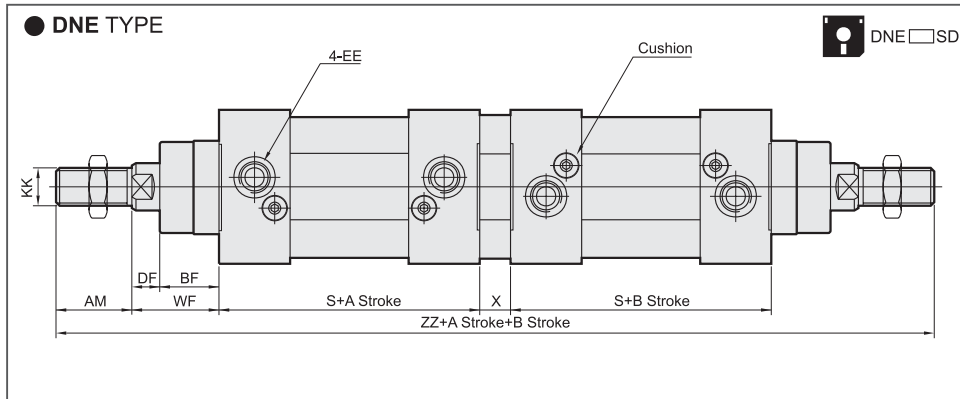
GT

RT

CT

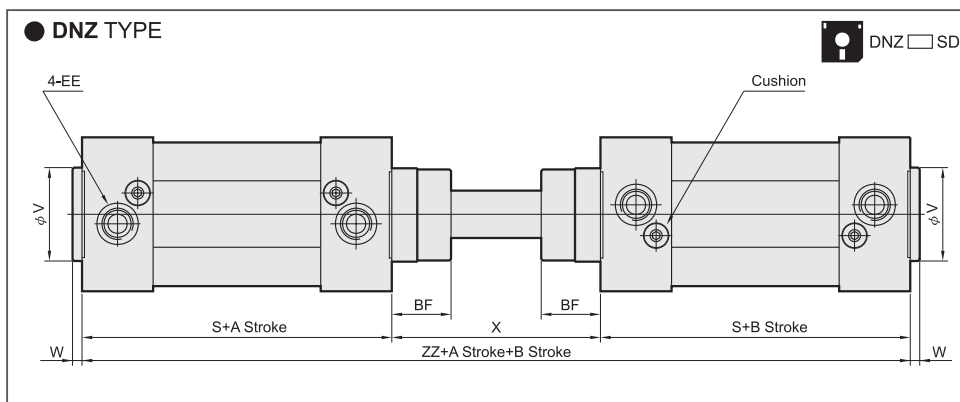
CH

Dimensional features



Dimensional Table

Bore	AM	BF	DF	EE	KK	S	WF	X	ZZ
φ 32	22	16	10	G 1/8	M10 × 1.25	94	26	10	294
φ 40	24	20	10	G 1/4	M12 × 1.25	105	30	10	328
φ 50	32	25	12	G 1/4	M16 × 1.5	106	37	12	362
φ 63	32	25	12	G 3/8	M16 × 1.5	121	37	12	392
φ 80	40	33	13	G 3/8	M20 × 1.5	128	46	16	444
φ 100	40	35	16	G 1/2	M20 × 1.5	138	51	16	474



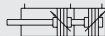
Dimensional Table

Bore	BF	EE	S	V	W	X	ZZ
φ 32	16	G 1/8	94	30	4	55	243
φ 40	20	G 1/4	105	35	5	55	265
φ 50	25	G 1/4	106	40	5	68	280
φ 63	25	G 3/8	121	45	5	68	310
φ 80	33	G 3/8	128	45	6	92	348
φ 100	35	G 1/2	138	55	6	92	368

Tandem Cylinders & Multiple Position Cylinders

DNF

Multiple Position Cylinders - Standard Type



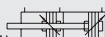
DNF..M

Multiple Position Cylinders - With Magnetic Piston Type



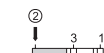
DNL

Tandem Cylinders - Standard Type

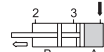


DNL..M

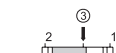
Tandem Cylinders - With Magnetic Piston Type



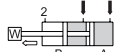
② Air intake, cylinders A&B



① Air intake, cylinder A extends.



③ Air intake, cylinder B

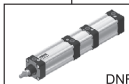
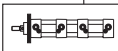
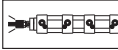
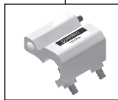


①③ Simultaneous air intake with double output force.

Specification

Bore sizes of cylinder (mm)	φ 32	φ 40	φ 50	φ 63	φ 80	φ 100
Standard stroke (mm)	Stroke by request					
The range of stroke (mm)	Max. 500					
Power fluid	Filtered air with or without lubrication					
Material of cylinder barrel	Aluminium extrusion, Anodised 20 microns					
The range of pressure (MPa)	0.1~1.03					
The range of temperature (°C)	-10~+60					

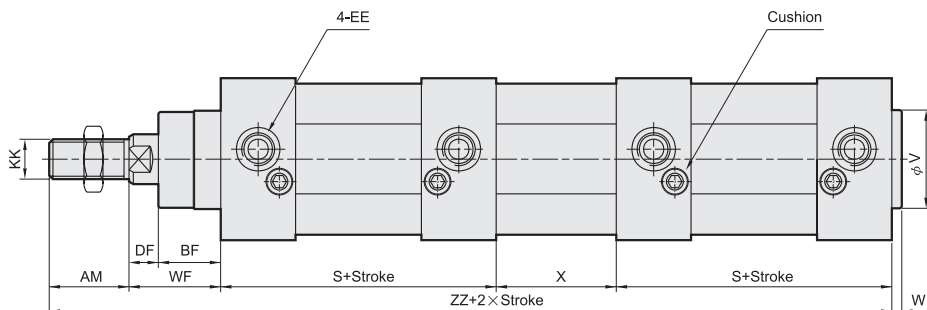
How to order

DNF	32	N	50 / 100	FA - Y - LN01A	2
Type	Bore	Magnet	First Stroke	Second Stroke	Accessory
 DNF	32—φ 32mm 40—φ 40mm 50—φ 50mm 63—φ 63mm 80—φ 80mm 100—φ 100mm	M: With magnet N: No magnet	Strokes by request	Strokes by request	 FA
 DNL					 FB
					 TC
					 CA
					 CB
					 LB
					 Y
					 G
					 K
					 LN01A: Suited for φ 32, φ 40 LN02A: Suited for φ 50, φ 63 LN03A: Suited for φ 80, φ 100
					Quantity 1: 1pc 2: 2pcs

Note:
1.Can choose NPN or PNP type (3-Wire type, 24VDC).
2.Can choose plug-in cable.
3.For details see page 4-1.1.

Dimensional features

● DNL TYPE (Tandem Cylinders)



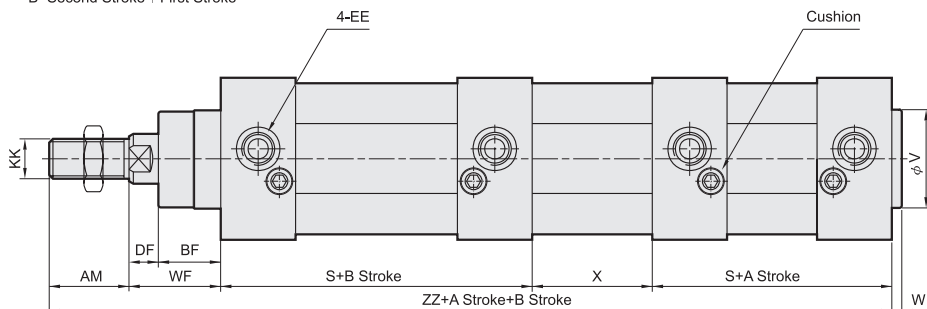
Dimensional Table

Bore	AM	BF	DF	EE	KK	S	V	W	WF	X	ZZ
φ 32	22	16	10	G 1/8	M10 × 1.25	94	30	4	26	55	291
φ 40	24	20	10	G 1/4	M12 × 1.25	105	35	5	30	55	319
φ 50	32	25	12	G 1/4	M16 × 1.5	106	40	5	37	68	349
φ 63	32	25	12	G 3/8	M16 × 1.5	121	45	5	37	68	379
φ 80	40	33	13	G 3/8	M20 × 1.5	128	45	6	46	92	434
φ 100	40	35	16	G 1/2	M20 × 1.5	138	55	6	51	92	459

● DNF TYPE (Multiple Position Cylinders)

A=First Stroke

B=Second Stroke + First Stroke



Dimensional Table

Bore	AM	BF	DF	EE	KK	S	V	W	WF	X	ZZ
φ 32	22	16	10	G 1/8	M10 × 1.25	94	30	4	26	55	291
φ 40	24	20	10	G 1/4	M12 × 1.25	105	35	5	30	55	319
φ 50	32	25	12	G 1/4	M16 × 1.5	106	40	5	37	68	349
φ 63	32	25	12	G 3/8	M16 × 1.5	121	45	5	37	68	379
φ 80	40	33	13	G 3/8	M20 × 1.5	128	45	6	46	92	434
φ 100	40	35	16	G 1/2	M20 × 1.5	138	55	6	51	92	459

Double acting cylinders

DNB

Double Acting - Single End Rod Type



DNB..M

Double Acting - Single End Rod Type (piston with magnet)



DND

Double Acting - Double End Rod Type



DND..M

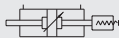
Double Acting - Double End Rod Type (piston with magnet)



DNN..N..A, DNN..N..B

A:25mm
B:50mm

Adjustable Forward Stroke Cylinder



DNN..M..A, DNN..M..B

A:25mm
B:50mm

Adjustable Forward Stroke Cylinder (piston with magnet)

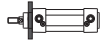
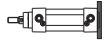
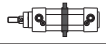
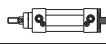
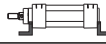
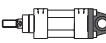
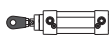
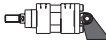


● DN Series cylinders according to ISO 6431
(Bore sizes $\phi 125 \sim \phi 160$)

Specification

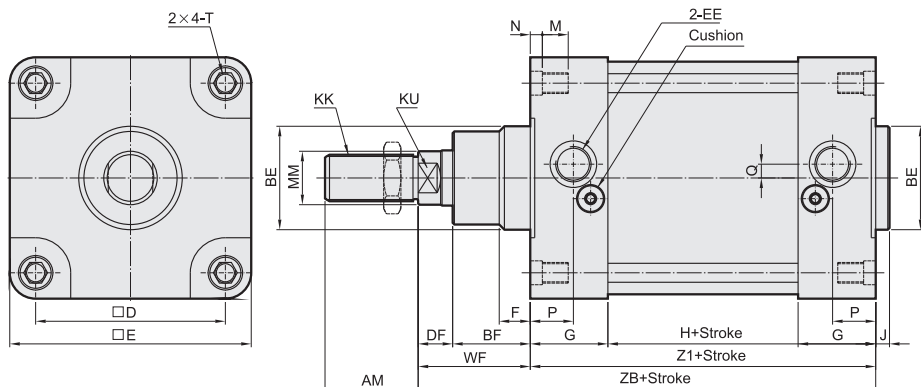
Bore sizes of cylinder (mm)	ϕ 125	ϕ 160
Standard stroke (mm)	25,50,75,100,125,150,175,200,250,300,350,400,450,500	
The range of stroke (mm)	Stroke till 1500mm by request	
Power fluid	Filtered air with or without lubrication	
Material of cylinder barrel	Aluminium extrusion, Anodised 20 microns	
The range of pressure (MPa)	0.1~1.03	
The range of temperature (°C)	-10~+ 60	

How to order

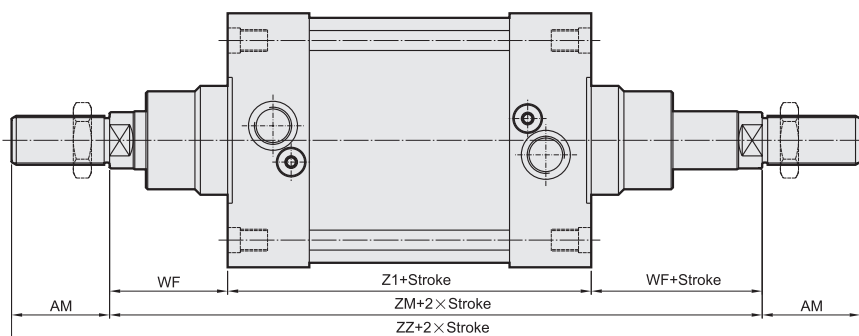
DNN	125	N	125	B	FA — Y —	LN02A ×	2
Type	Bore	Magnet	Stroke	Adjustable stroke	Accessory	Sensor switch	Quantity
 DNN	125— ϕ 125mm 160— ϕ 160mm	M: With magnet N: No magnet	25—25mm 50—50mm 75—75mm 100—100mm 125—125mm 150—150mm 175—175mm 200—200mm 250—250mm 300—300mm 350—350mm 400—400mm 450—450mm 500—500mm	None: standard A: Adjustable 25mm B: Adjustable 50mm Note: this number can only be used for the adjustable type.	 FA  FB  TC  CA  CB  LB  Y	 LN02A LN02A: Suited for DN ϕ 125 LN03A: Suited for DN ϕ 160 Note: 1.Can choose NPN or PNP type (3-Wire type, 24VDC). 2.Can choose plug-in cable. 3.For details see page 4-1.1.	1: 1pc 2: 2pcs
					Suited for DN ϕ 125		
					 CG	 G	
					 CD	 K	

Dimensional features

● DNB TYPE



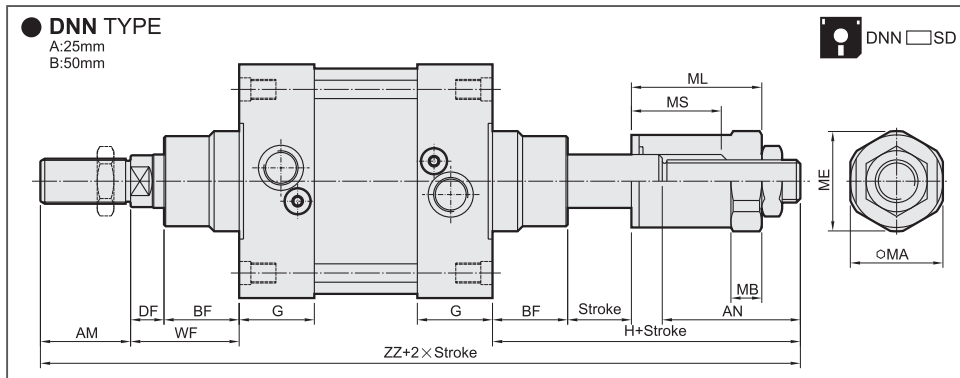
● DND TYPE



Dimensional Table

Bore	AM	BE	BF	D	DF	E	EE	F	G	H	J	KK	KU	M	MM	N	P	Q	T	WF	Z1	ZB	ZM	ZZ
φ 125	54	60	45	110	20	140	G 1/2	18	45	70	8	M27 × 2.0	27	15	32	5	22.5	8	M12	65	160	225	290	398

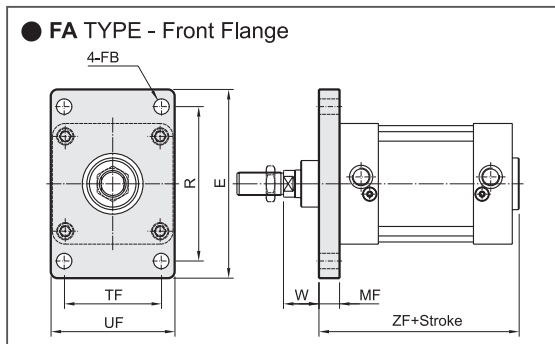
Dimensional features



Dimensional Table

Bore	AM	AN		BF	DF	G	H		MA	MB	ME	ML		MS		WF	ZZ	
		A	B				A	B				A	B	A	B		A	B
φ 125	54	63	88	45	20	45	128	153	57	18	64	65	90	47	72	65	407	432

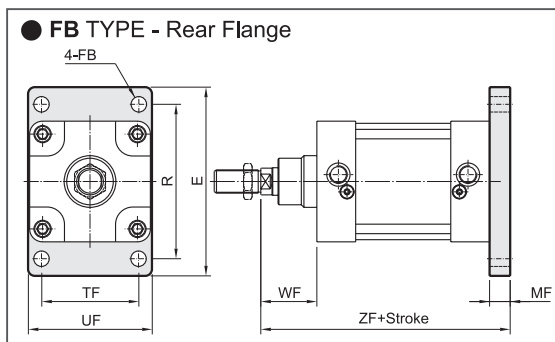
Accessories



Dimensional Table

DN FA

Bore	E	FB	MF	R	TF	UF	W	ZF
φ 125	220	16	20	180	90	140	45	188



Dimensional Table

DN FB

Bore	E	FB	MF	R	TF	UF	WF	ZF
φ 125	220	16	20	180	90	140	65	245

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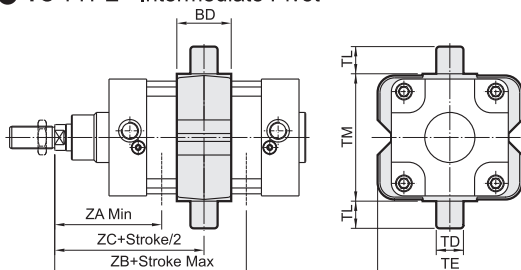
RT

CT

CH

Accessories

● TC TYPE - Intermediate Pivot

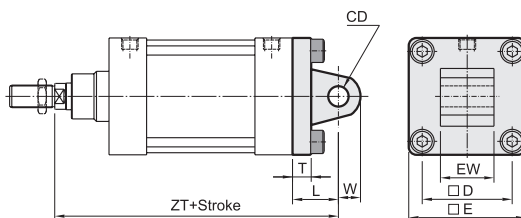


Dimensional Table



Bore	BD	TD	TE	TL	TM	ZA	ZB	ZC
φ 125	40	25	157	25	160	135	155	145

● CA TYPE - Male Pivot

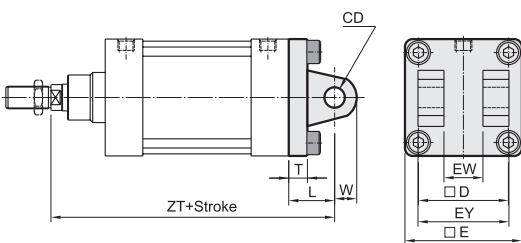


Dimensional Table



Bore	CD	D	E	EW	L	T	W	ZT
φ 125	25	110	140	70	50	17	26	275

● CB TYPE - Female Pivot

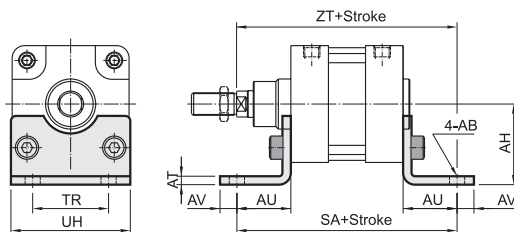


Dimensional Table



Bore	CD	D	E	EW	EY	L	T	W	ZT
φ 125	25	110	140	70	130	50	17	26	275

● LB TYPE - Foot Mounting



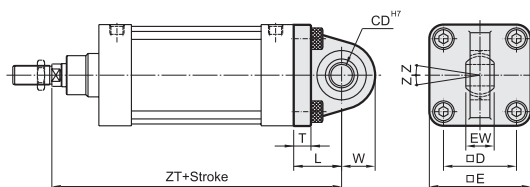
Dimensional Table



Bore	AB	AH	AT	AU	AV	SA	TR	UH	ZT
φ 125	16	90	7	45	25	250	90	140	270

Accessories

● CG TYPE - Male Pivot



Dimensional Table



DN □ CG

Bore	CD	D	E	EW	L	T	W	Z	ZT
φ 125	25	110	140	31	50	17	40	15°	275

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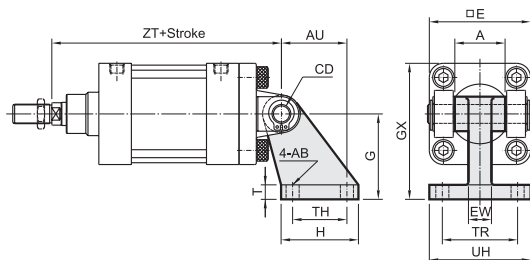
GT

RT

CT

CH

● CD TYPE



Dimensional Table

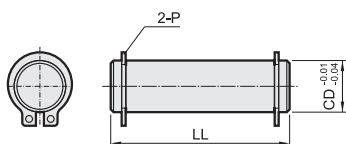


DN □ CD

Bore	A	AB	AU	CD	E	EW	T	G	GX
φ 125	70	14	70	25	140	25	20	90	160

Bore	H	TH	TR	UH	ZT
φ 125	90	60	94	124	275

● CB Pin TYPE



Dimensional Table

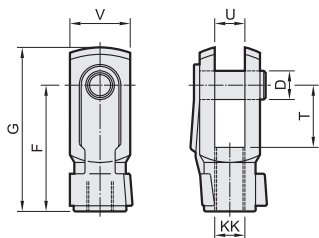


DN □ PIN

Bore	CD	LL	P
φ 125	25	139	STW-25

Accessories

● Y Rod Clevis (With Pin)



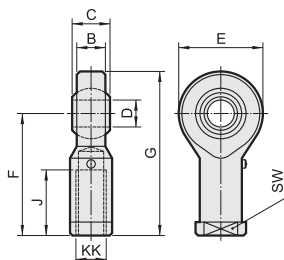
Dimensional Table

Type	Bore	D	F	G	KK	T	U	V
Y-M27 × 2.0	φ 125	30	110	155	M27 × 2.0	54	30	55



Type	Filename
Y-M27 × 2.0	YM27200

● Oscillating Eye



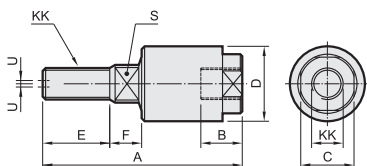
Dimensional Table

Type	Bore	B	C	D	E	F	G	J	KK	SW
G-M27 × 2.0	φ 125	25	37	30	70	110	145	50	M27 × 2.0	41



Type	Filename
G-M27 × 2.0	GM27200

● Compensating Joint



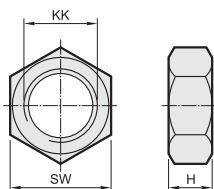
Dimensional Table

Type	Bore	A	B	C	D	E	F	KK	S	U
K-M27 × 2.0	φ 125	153	33	41	63	63	22	M27 × 2.0	27	1.25



Type	Filename
K-M27 × 2.0	KM27200

● Mounting Nut



Dimensional Table

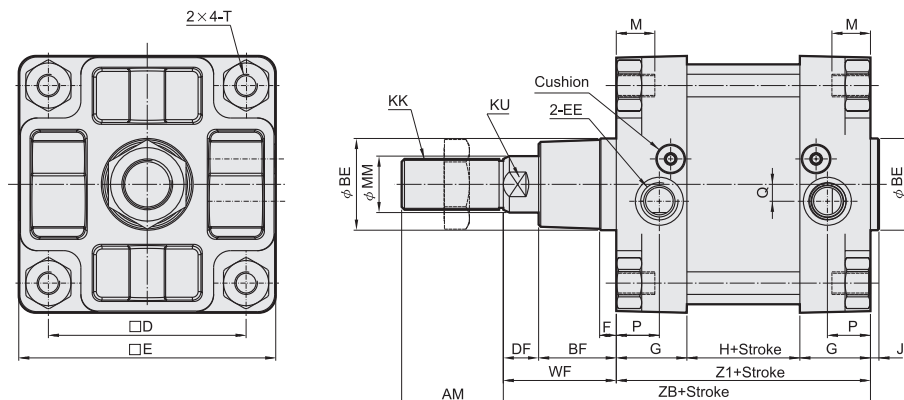
Type	Bore	H	KK	SW
N-M27 × 2.0	φ 125	8	M27 × 2.0	35



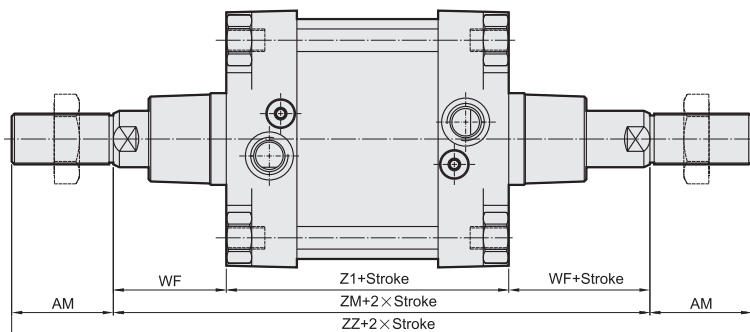
Type	Filename
N-M27 × 2.0	NM27200

Dimensional features

● DNB TYPE



● DND TYPE



Dimensional Table

Bore	AM	BE	BF	D	DF	E	EE	F	G	H	J	KK	KU	M	MM	P	Q	T	WF	Z1	ZB	ZM	ZZ
φ 160	72	65	55	140	25	182	G 3/4	10	50	80	6	M36×2.0	36	27	40	30,5	12	M16	80	180	260	340	484

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GS

GM

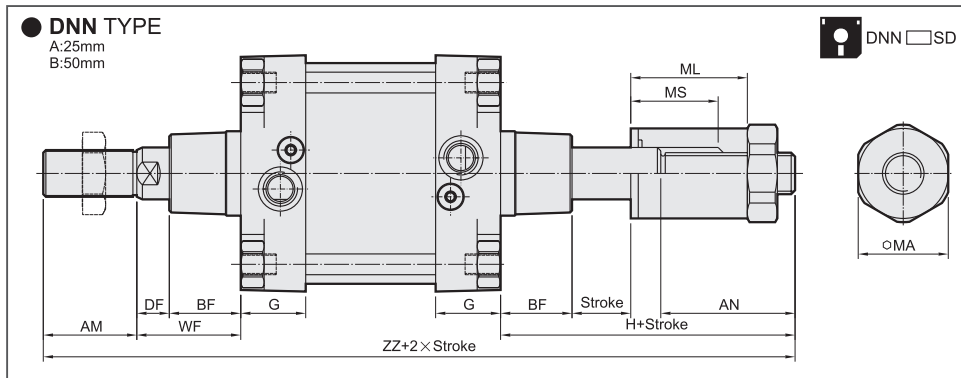
GT

RT

CT

CH

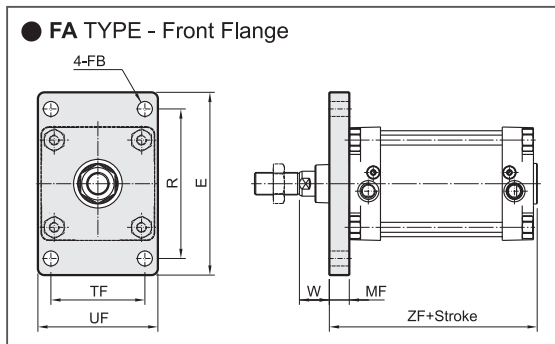
Dimensional features



Dimensional Table

Bore	AM	AN		BF	DF	G	H		MA	MB	ME	ML		MS		WF	ZZ	
		A	B				A	B				A	B	A	B		A	B
φ 160	72	63	88	55	25	50	134	159	55	—	—	55	80	37	62	80	466	491

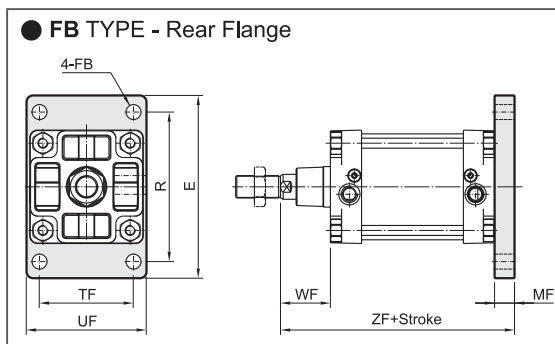
Accessories



Dimensional Table

DN □ FA

Bore	E	FB	MF	R	TF	UF	W	ZF
φ 160	280	18	20	230	115	180	60	206



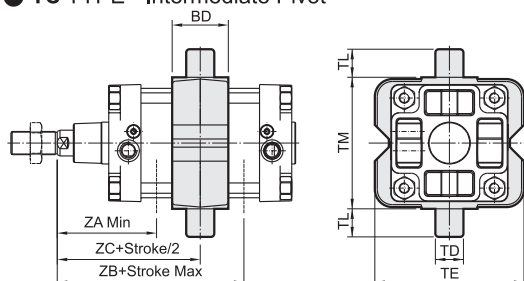
Dimensional Table

DN □ FB

Bore	E	FB	MF	R	TF	UF	WF	ZF
φ 160	280	18	20	230	115	180	80	280

Accessories

● TC TYPE - Intermediate Pivot



Dimensional Table



Bore	BD	TD	TE	TL	TM	ZA	ZB	ZC
φ 160	45	32	192	32	200	153	187	170

DA

DP

DS

DQ

DB

DN

BN

ST

NT

DU

DJ

TA

GP

GS

GM

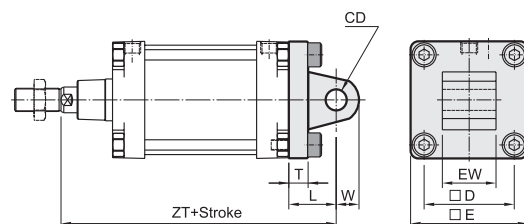
GT

RT

CT

CH

● CA TYPE - Male Pivot

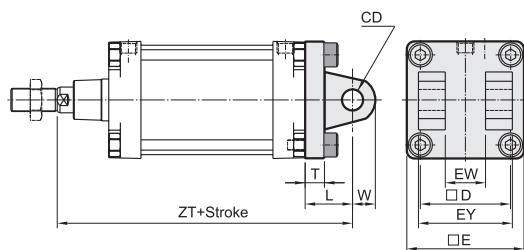


Dimensional Table



Bore	CD	D	E	EW	L	T	W	ZT
φ 160	30	140	180	90	55	20	30	315

● CB TYPE - Female Pivot

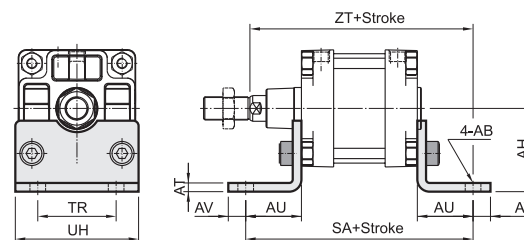


Dimensional Table



Bore	CD	D	E	EW	EY	L	T	W	ZT
φ 160	30	140	180	90	170	55	20	30	315

● LB TYPE - Foot Mounting



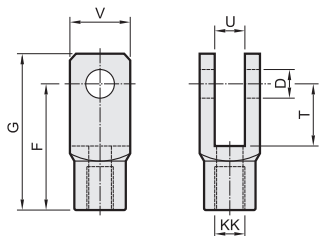
Dimensional Table



Bore	AB	AH	AT	AU	AV	SA	TR	UH	ZT
φ 160	18	115	10	60	15	300	115	180	320

Accessories

● Y Rod Clevis (With Pin)



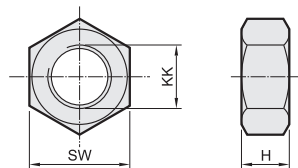
Dimensional Table

Type	Bore	D	F	G	KK	T	U	V
Y-M36×2.0	φ 160	35	144	189	M36×2.0	72	35	70



Type	Filename
Y-M36×2.0	YM36200

● Mounting Nut



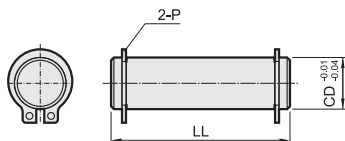
Dimensional Table

Type	Bore	H	KK	SW
N-M36×2.0	φ 160	18	M36×2.0	55



Type	Filename
N-M36×2.0	NM36200

● Y & CA / CB Pin TYPE



Dimensional Table

Bore	CD		LL		P	
	Y	CA/CB	Y	CA/CB	Y	CA/CB
φ 160	35	30	86	186	STW-35	STW-30



DN □ PIN

Cylinder Weight (Including The Mounting Nut)

Unit: kg

Bore	Basic weight DNB	Stroke 25 mm DNB	Basic weight DND	Stroke 25 mm DND	Basic weight DNN	Stroke 25 mm DNN	Basic weight DNN	Stroke 25 mm DNN
	Adjustable stroke 25 mm				Adjustable stroke 50 mm			
φ 125	6.62	0.4	7.53	0.56	8.52	0.56	8.93	0.56
φ 160	14.8	0.9	17.04	1.13	17.64	1.13	18.24	1.13

Mounting Weight (Including The Mounting Screws)

Unit: kg

Bore	FA FB	CA	CB	LB	TC	Y+PIN	I	Nut(Rod)	Sensor switch
φ 125	4.02	3.78	3.56	2.50	2.75	1.81	1.40	0.05	0.066
φ 160	7.17	7.40	7.14	4.60	5.13	3.12	1.90	0.2	0.086