

Double acting cylinders

DBQ

Side Mounting



DBQ...B

Side Mounting (with End Cushion)



DBB

Front Mounting



DBB...B

Front Mounting (with End Cushion)




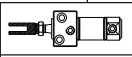
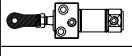
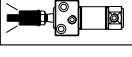
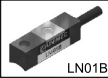


- Piston with magnet is standard accessory in the DB series cylinders.
- The rod cover and End cap, molded by rolling and riveting, are of high concentricity and stability.
- Double-acting cylinders φ 16~ φ 40 can be added with end cushion.

Specification

Bore sizes of cylinder (mm)	φ 16	φ 20	φ 25	φ 32	φ 40
Type of operation	Double Acting				
Power fluid	Filtered air with or without lubrication				
Material of cylinder barrel	Stainless steel				
The range of pressure (MPa)	0.2~0.7				
Proof pressure	1.03				
The range of temperature (°C)	0~70				
The range of speed (mm/sec)	50~500				
Port size	M5	G 1/8			G 1/4

How to order

DBQ 25 N 100 Y - LN01B × 2

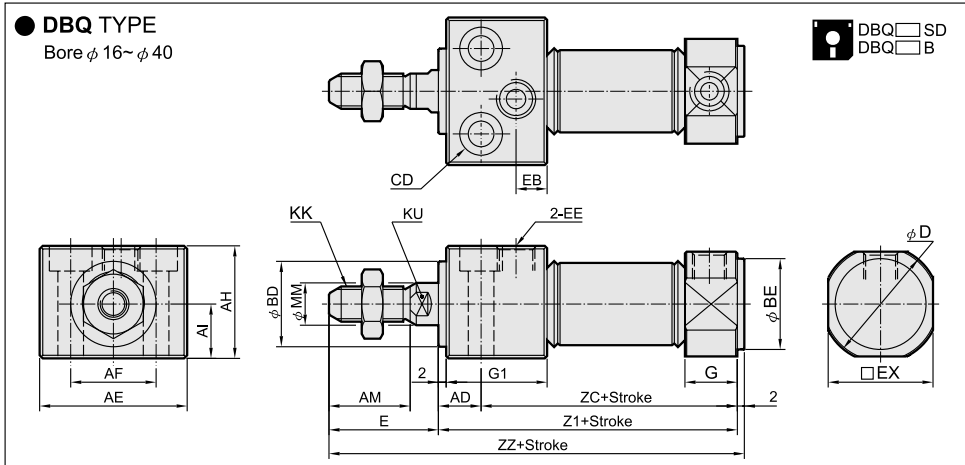
Type	Bore	Cushion	Stroke	Accessory	Sensor switch	Quantity
 DBQ	16-φ 16mm 20-φ 20mm 25-φ 25mm 32-φ 32mm 40-φ 40mm	B: Both end with cushion N: No cushion	15-15mm 25-25mm 50-50mm 75-75mm 100-100mm 125-125mm 150-150mm 200-200mm 250-250mm 300-300mm	 Y  G  K	 LN01B	1: 1pc 2: 2pcs
 DBB					 LN48R	

Note:
1.Can choose NPN or PNP type (3-Wire type, 24VDC).
2.Can choose plug-in cable.
3.For details see page 4-1.2 or 4-1.7.

Standard stroke

Type	Stroke	15	25	50	75	100	125	150	200	250	300
	Bore										
DBQ_(B)	φ 16	●	●	●	●	●	-	-	-	-	-
	φ 20	●	●	●	●	●	●	-	-	-	-
DBB_(B)	φ 25	●	●	●	●	●	●	●	●	-	-
	φ 32	●	●	●	●	●	●	●	●	●	-
	φ 40	●	●	●	●	●	●	●	●	●	●

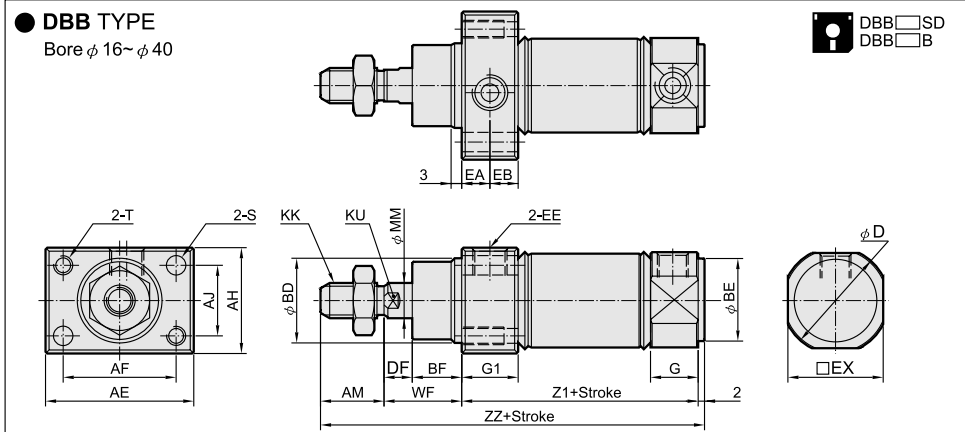
Dimensional features of double acting cylinders



Dimensional Table _B: With end cushion : _N: No Cushion

Bore	AD	AM	AN	AE	AF	AI	AH	BD	BE	CD	D	E	EB	EE	EX	G		KK	KU	MM	Z1	ZC	ZZ	
																_N	_B							
φ 16	8	15	9	30	16	12	24	18	16	2-φ 4.5, φ 8×4.5	21	20	8	M5×0.8	19	10	13.5	23	M6×1.0	5	6	73	65	95
φ 20	11	15	9	38	22	14	28	22	20	2-φ 6.6, φ 11×6.5	28	23	8	G1/8	24	15	17.5	26	M8×1.25	7	8	78	67	103
φ 25	12	18	10	42	26	15	30	24	26	2-φ 6.6, φ 11×6.5	33.5	26	8	G1/8	30	15	17.5	28	M10×1.25	9	10	80.5	68.5	108.5
φ 32	14	23	14	54	34	18	36	28	26	2-φ 9, φ 14×8.5	37.5	31	8	G1/8	34.5	15	17.5	34	M10×1.25	10	12	94	80	127
φ 40	17	23	18	68	46	22	44	34	32	2-φ 11, φ 17.5×11	46.5	31	9	G1/4	42.5	21.5	21.5	42	M12×1.25	14	16	114	97	147

● **DBB TYPE**
Bore φ 16~ φ 40



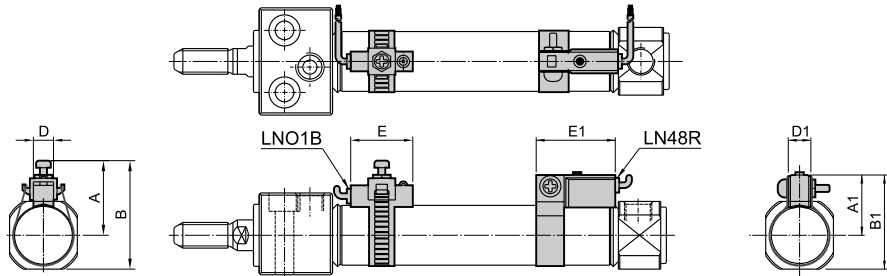
Dimensional Table _B: With end cushion : _N: No Cushion

Bore	AM	AE	AF	AJ	AH	BD	BE	BF	D	DF	EA	EB	EE	EX	G		KK	KUM	M	S	T	WF	Z1	ZZ	
															_N	_B									
φ 16	15	30	22	16	24	18	16	9	21	5	8	8	M5×0.8	19	10	13.5	16	M6×1.0	5	6	4.5	M4×0.7dp8	14	64	95
φ 20	15	38	28	18	28	22	20	12	28	8	8	8	G1/8	24	15	17.5	16	M8×1.25	7	8	5.5	M5×0.8dp12	20	66	103
φ 25	18	42	32	20	30	24	26	14	33.5	8	8	8	G1/8	30	15	17.5	16	M10×1.25	9	10	5.5	M5×0.8dp12	22	66.5	108.5
φ 32	23	54	42	24	36	28	26	14	37.5	8	8	8	G1/8	34.5	15	17.5	16	M10×1.25	10	12	6.6	M6×1.0	22	74	121
φ 40	23	68	52	28	44	34	32	14	46.5	8	11	9	G1/4	42.5	21.5	21.5	20	M12×1.25	14	16	9	M8×1.25	22	90	137

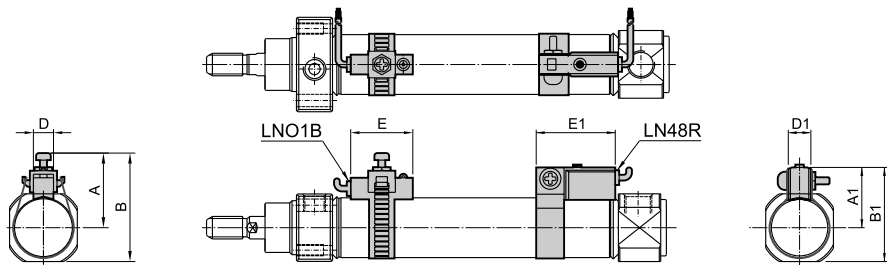
- DA
- DP
- DS
- DQ
- DB
- DN
- BN
- ST
- NT
- DU
- DJ
- TA
- GP
- GS
- GM
- GT
- RT
- CT
- CH

Installation of sensor switches

● DBQ TYPE



● DBB TYPE



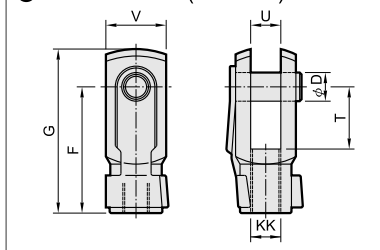
Dimensional Table

Bore	Sensor switch	A	B	D	E
φ 16	LN01B	23.4	33	7	22
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

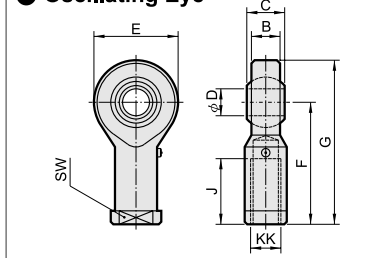
Bore	Sensor switch	Clamp NO.	A1	B1	D1	E1
φ 16	LN48R	BS-S16	20	30	8	28
φ 20	LN48R	BS-S20	22	34	8	28
φ 25	LN48R	BS-S25	24	39	8	28
φ 32	LN48R	BS-S32	28	45.5	8	28
φ 40	LN48R	BS-S40	32	53	8	28

Accessories

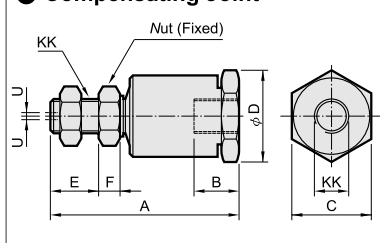
● Y Rod Clevis (With Pin)



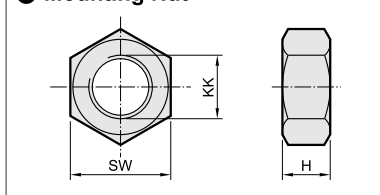
● Oscillating Eye



● Compensating Joint



● Mounting Nut



Dimensional Table

Type	Bore	D	F	G	KK	T	U	V
Y-M6 × 1.0	φ 16	6	24	31	M6 × 1.0	12	6	12
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-M12 × 1.25	φ 40	12	48	62	M12 × 1.25	24	12	24



Type	Filename
Y-M6 × 1.0	YM06100
Y-M8 × 1.25	YM08125
Y-M10 × 1.25	YM10125
Y-M12 × 1.25	YM12125

Dimensional Table

Type	Bore	B	C	D	E	F	G	J	KK	SW
G-M6 × 1.0	φ 16	7	9	6	18	30	39	14	M6 × 1.0	11
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-M12 × 1.25	φ 40	12	16	12	30	50	65	24	M12 × 1.25	19



Type	Filename
G-M6 × 1.0	GM06100
G-M8 × 1.25	GM08125
G-M10 × 1.25	GM10125
G-M12 × 1.25	GM12125

Dimensional Table

Type	Bore	A	B	C	D	E	F	KK	U
K-M6 × 1.0	φ 16	37	7.5	14	15	12	5	M6 × 1.0	1
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-M12 × 1.25	φ 40	70	17	29	31	19	7	M12 × 1.25	1.15



Type	Filename
K-M6 × 1.0	KM06100
K-M8 × 1.25	KM08125
K-M10 × 1.25	KM10125
K-M12 × 1.25	KM12125

Dimensional Table

Type	Bore	H	KK	SW
N-M6 × 1.0	φ 16	3	M6 × 1.0	10
N-M8 × 1.25	φ 20	5	M8 × 1.25	14
N-M10 × 1.25	φ 25, φ 32	6	M10 × 1.25	17
N-M12 × 1.25	φ 40	7	M12 × 1.25	19



Type	Filename
N-M6 × 1.0	NM06100
N-M8 × 1.25	NM08125
N-M10 × 1.25	NM10125
N-M12 × 1.25	NM12125

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