

■ Features

1. Tie rod cylinder.
2. High quality of aluminum tube provides a long service life.
3. High quality of seals ensures leakage free.
4. Various sensors for option.
5. With adjustable cushions on both ends.



■ How to order

ICL	125	B	50	SF	D	1	FA	Y	S
Type	Bore size	Magnet	Stroke	Sensor	Type	Number of sensor	Mounting parts	Rod end joint	Rod material
ICL:ISO15552 standard type	125 :Ø125	B:W/I magnet		Blank :W/O sensor	Blank:Reed switch	1 pc	Blank :W/O mounting parts	Blank:W/O rod end joint	Blank:S45C
ICLD:Double piston rod type	160 :Ø160	C:W/O magnet		SF:LED in front	D :NPN	2 pcs	FA :Front flange	Y:Double knuckle joint	S:SUS304
ICLA:Stroke adjustable 25mm	200 :Ø200			ST:LED on top	E :PNP		FB :Rear flange	I :Single knuckle joint	
ICLB:Stroke adjustable 50mm							TC :Central trunnion	P:Eyebolt floating joint	
							CA :Male clevis	T:Basic floating joint	
							CB :Female clevis		
							CR :Angular trunnion with female clevis		
							LB :Foot mounting		

*Sensor please refer to P3-189~P3-190
*Repair kit to P3-27

■ How to order mounting parts

ZI	FA	—	125
ICL series	Mounting parts		Bore size
	FA :Front flange		125 :Ø125
	FB :Rear flange		160 :Ø160
	TC :Central trunnion		200 :Ø200
	CA :Male clevis		
	CB :Female clevis		
	CR :Angular trunnion with female clevis		
	LB :Foot mounting		

*Please refer to P3-25~P3-27

■ How to order rod end joints

ZNF	Y	—	M27
	Rod end joint		Thread size
	Y:Double knuckle joint		M27 :M27xP2 (ICL125)
	I :Single knuckle joint		M36 :M36xP2 (ICL160, 200)
	P:Eyebolt floating joint		
	T:Basic floating joint		

*Please refer to P3-187~P3-188

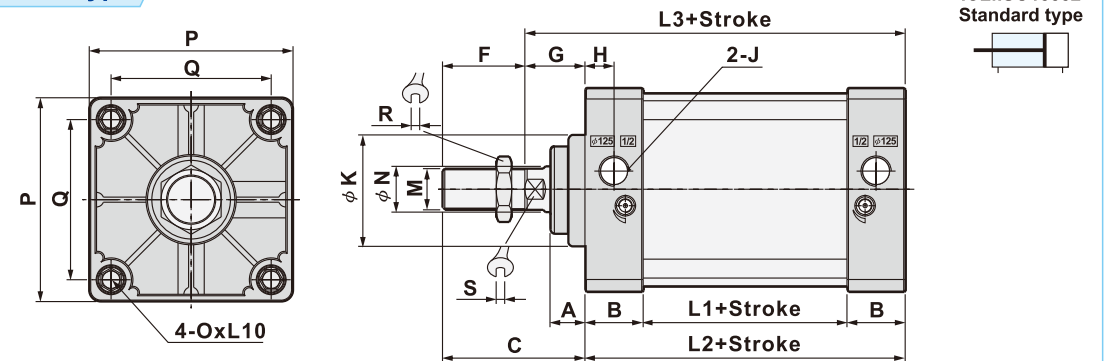
■ Specifications

Bore size	Ø125	Ø160	Ø200
Port size	1/2"	3/4"	
Fluid	Compressed air		
Acting	Double acting		
Operating pressure range	1.5 ~ 9.5 kgf/cm ²		
Barrel material	Aluminum alloy		
Cushion	Built in		
Magnet	Option		
Ambient temperature	-5°C ~ 60°C		
Piston speed	50 ~ 700mm/Sec.		

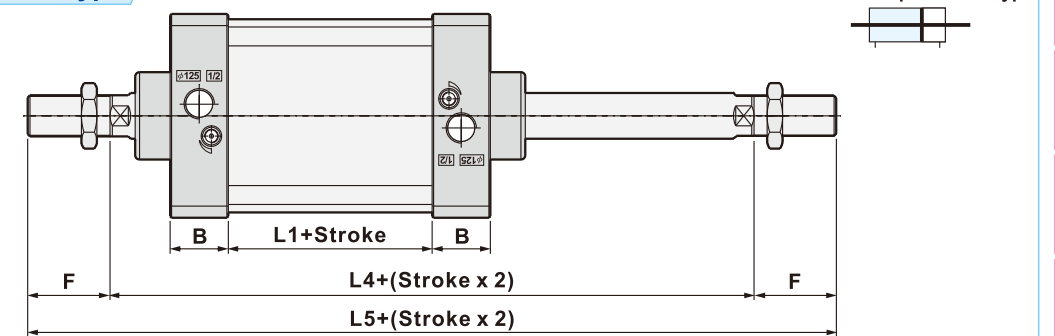
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■ Dimensions

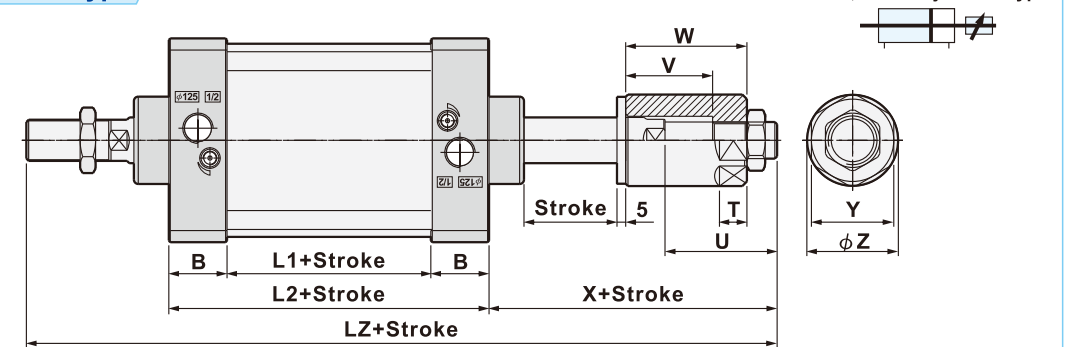
ISO15552 Standard type



ICLD Double piston rod type



ICLA, ICLB Adjustable type



(Unit: mm)

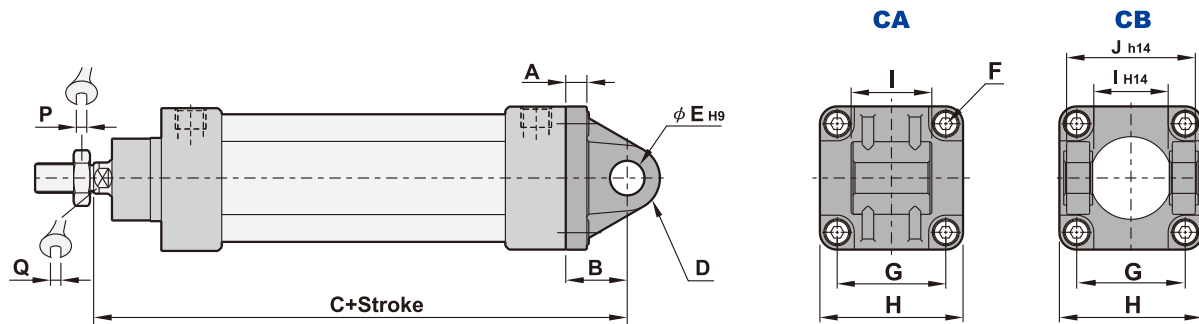
Bore size	A	B	C	F	G	H	I	J	K	M	N	O	L1	L2	L3	L4	L5
φ 125	24.5	40	119	54	65	26.5	110	G1/2	φ 60	M27xP2	φ 32	M12	80	160	225	290	398
φ 160	38	50	152	72	80	25.5	140	G3/4	φ 65	M36xP2	φ 40	M16	80	180	260	340	484
φ 200	38	50	167	72	95	23.5	175	G3/4	φ 75	M36xP2	φ 40	M16	84	184	279	374	518

Bore size	LZ		U		V		W		X		P	Q	R	S	T	Y	Z
	ICLA	ICLB	ICLA	ICLB	ICLA	ICLB	ICLA	ICLB	ICLA	ICLB							
φ 125	409	434	65	90	57	82	74	99	130	155	140	110	40	27	21	50	φ 55
φ 160	491	516	79	104	69	94	89	114	159	184	180	140	50	36	21	55	φ 60
φ 200	507	532	79	104	69	94	89	114	156	181	220	175	50	36	21	55	φ 60

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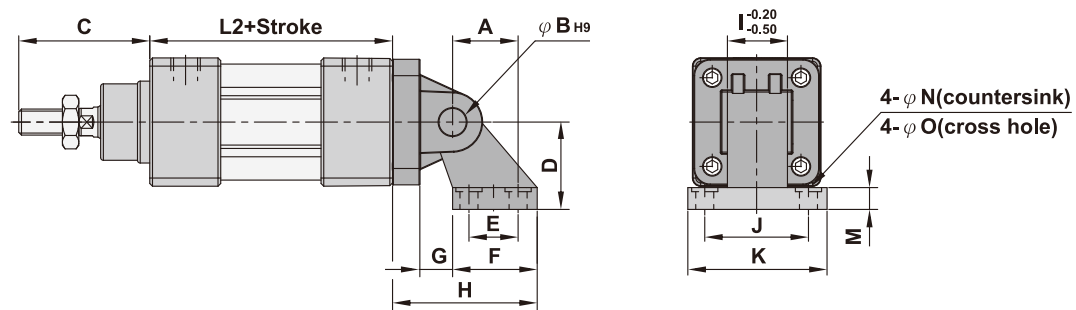
■ Dimension of mounting parts

CA, CB Male & Female clevis



													(Unit: mm)	
Bore size	A		B	C	D	E	F	G	H	I	J	P	Q	
	CA	CB												
ϕ 125	17	19	50	275	R25	ϕ 25	M12	110	140	70 ^{-0.5 -1.2}	130	40	27	
ϕ 160	19.5	19.5	55	315	R30	ϕ 30	M16	140	180	90 ^{-0.5 -1.2}	170	50	36	
ϕ 200	23	22	60	339	R30	ϕ 30	M16	175	220	90 ^{-0.5 -1.2}	170	50	36	

CR Angular trunnion with female clevis

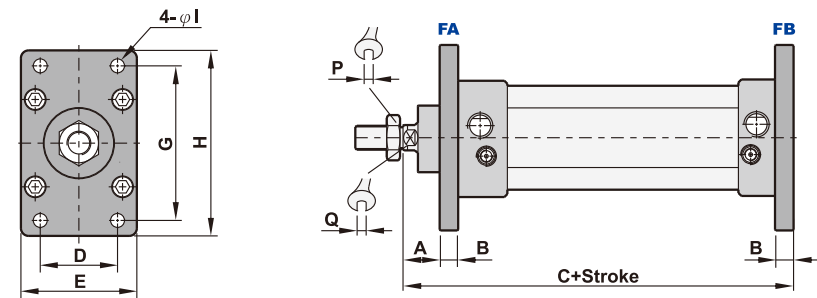


(Unit: mm)

Bore size	A	B	C	D	E	F	G	H	I	J	K	L2	M	N	O
φ 125	70	φ 25	119	90	60	90	26	135	70	94	124	160	20	φ 20	φ 14
φ 160	97	φ 30	152	115	88	126	25	171	90	118	156	180	25	φ 20	φ 14
φ 200	105	φ 30	167	135	90	130	31	185	90	122	162	184	30	φ 26	φ 18

■ Dimension of mounting parts

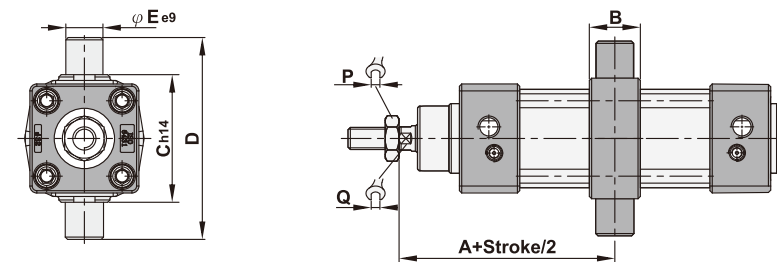
FA, FB Front & Rear flange



(Unit: mm)

Bore size	A	B	C	D	E	G	H	I	P	Q
φ 125	45	20	245	90	140	180	224	φ 16.5	40	27
φ 160	60	20	280	115	180	230	280	φ 18.5	50	36
φ 200	70	25	304	135	220	270	320	φ 24	50	36

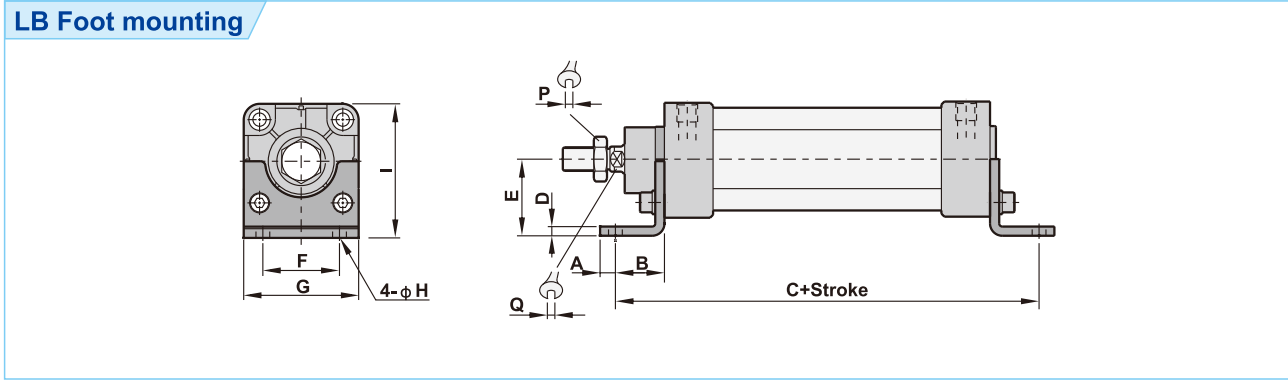
TC Central trunnion



(Unit: mm)

Bore size	A	B	C	D	E	P	Q
φ 125	115	40	158	210	φ 25	40	27
φ 160	126	46	200	264	φ 32	50	36
φ 200	126	46	246	314	φ 32	50	36

Dimension of mounting parts



(Unit: mm)

Bore size	A	B	C	D	E	F	G	H	I	P	Q
φ 125	20	45	250	8	90	90	140	φ 16.5	160	40	27
φ 160	20	60	300	8	115	115	180	φ 18.5	205	50	36
φ 200	30	70	324	9	135	135	220	φ 24	245	50	36

Stroke table

Bore size	Acting	Standard stroke(mm)	Max. Standard stroke(mm)
φ 125~ φ 200	Double acting	25 ~ 1500	2200

Note: Please contact our sales for non-standard stroke.

How to order Repair kit

ZGCIN	—	125
Repair kit for IC Cylinder	Bore size	
ZGCIN (ICL)	125 : φ 125	
ZGCINB (ICLD. ICLA. ICLB)	160 : φ 160	
	200 : φ 200	

Repair kit :

ZGCIN	
Description	Qty.
Rod seal	1
O-ring for cushion needle	2
O-ring for front/rear cover	2
Cushion	2
U-Piston seal	2

ZGCINB	
Description	Qty.
Rod seal	2
O-ring for cushion needle	2
O-ring for front/rear cover	2
Cushion	2
U-Piston seal	2

Memo...

