



Series LP Compact Air Cylinders Model Number Comparison

(The brands listed below are similar in dimension)

Bulletin 0975-E1
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Model Number Comparison

LIN-ACT SHOR-T [®] MODEL	PARKER SERIES LP	BIMBA FLAT 1 MODEL
ST BASIC	NLP	FO
DST DOUBLE ROD	KNLP	FOD
STHC Head end bolt clearance holes	4 FLP	FO---4F
STCC Cap end bolt clearance holes	4 RLP	FO---4R
STHTM Head end threaded mounting holes	3 FLP	FO---3F
STCTM Cap end threaded mounting holes	3 RLP	FO---3R
STBTM Both ends threaded mounting holes	3 LP	FO---3
STTH Head end trunnion	2 FLP	FO---2F
STTC Cap end trunnion	2 RLP	FO---2R
STPE Cap pivot eye	1 LP	FO---1
ST-X--SR = Spring Return	NLPR	FOS
ST-X--SE = Spring Extend	NLPE	FOR

Parker Series LP Compact Air Cylinders — How To Order

Bore Size	Double Rod	Mounting Style	Series	Piston	Seals	Spring	Special	Rod Thread Style	Stroke
1.50	K	N	LP	B	V	E	S	9	x 2.00
Specify: 0.56 0.75 1.12 1.50 2.00 2.50 3.00 4.00	Use K symbol only if double rod cylinder is required.	N is the standard basic mounting, or specify: 4F, 4R, 3F, 3R, 3, 2F, 2R, or 1. Double rod mounting styles: KN, K4R, K3F, K3, and K2F. Hollow rod mounting styles: KNH, K4RH, K3FH, K3H and K2FH.	Use for all LP series cylinders.	Bumpers: Leave blank for cylinder without bumpers. Specify: B = Bumpers at both ends H = Bumpers at head end only C = Bumpers at cap end only	Leave blank for standard seals. Specify: V = Viton Seal Material.	Leave blank for cylinders without spring. Specify: E = Spring Extended R = Spring Return	Use S symbol only if special feature is required.	Specify rod end thread style number, 9 = standard female or 4 = male Rod end optional. 3 = special.	Specify in inches. Show X symbol just ahead of the stroke.

How To Order Lin-Act SHOR-T[®] Cylinders

Example: **ST 1-1/2 x 1/2 4 V**

<p>ST</p> <p>ST Basic Model</p> <p>STHC Head end bolt clearance holes</p> <p>STCC Cap end bolt clearance holes</p> <p>STHTM Head end threaded mounting holes</p> <p>STCTM Cap end threaded mounting holes</p> <p>STBTM Both ends threaded mounting holes</p> <p>STTH Head end trunnion</p> <p>STTC Cap end trunnion</p> <p>STPE Cap pivot eye</p>	<p>1-1/2 x 1/2</p> <p>Bore size 1/4, 1/2, 3/4, 1, 1 1/2, 2, 2 1/2, 3</p> <p>Stock Strokes: 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2", 2 3/4", 3", 3 1/2", 4"</p> <p>Other strokes available on request.</p> <p>NOTE: Add prefix D to model number for double rod end cylinder Example D-ST</p>	<p>4</p> <p>Rod thread style #4 female standard #2 male rod end optional.</p>	<p>V</p> <p>Options V = Viton Seals SE = Spring Extend SR = Spring Return B = Bumpers both ends BH = Bumper head end BC = Bumper cap end HR = Hollow rod</p>
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Bimba Flat 1 Nomenclature

The Model Number for all Flat 1 cylinders consists of five alpha-numeric clusters. These designate type, bore size, stroke length, mounting option and special options.

Please refer to the charts below for an example of Model Number FO-17-0.250-1-V. This is a double acting, 1 1/2" bore, 1/4" stroke, pivot mount cylinder with viton seals.

TYPE	BORE SIZE	STROKE LENGTH
FO - Double Acting, Single End Rod	02 - 3/8"	31 - 2"
FOD - Double Acting, Double End Rod	04 - 1/2"	50 - 2 1/2"
FOR - Reverse Acting	09 - 1 1/4"	70 - 3"
FOS - Single Acting	17 - 1 1/2"	125 - 4"
		0.125 = 1/8"
		0.250 = 1/4"
		0.375 = 3/8"
		ETC.

FO- 17- 0.250 - 1 - V

MOUNTING OPTIONS

- No Number - Basic Model
- 1 - Pivot Mount
- 1N - Pivot Mount 90° from Standard
- 2F* - Front Trunnion Mount
- 2R* - Rear Trunnion Mount
- 3 - Threaded Mounting Holes, Both Ends
- 3F - Threaded Mounting Holes, Front
- 3R - Threaded Mounting Holes, Rear
- 4F - Screw Clearance Holes, Front
- 4R - Screw Clearance Holes, Rear

SPECIAL OPTIONS

- CFT - Coarse Female Rod Thread (Fine Thread Standard)
- EE0.375 - 3/8" Extra Rod Extension
- EE1 - 1" Extra Rod Extension, etc.
- H - Hollow Rod (Double End Models Only)
- MT - Male Rod End (Fine Thread)
- CMT - Male Rod End (Coarse Thread)
- NT - Non-Threaded Rod
- P2*, P3, P4* - Front Port Position #2, etc.
- L - Low Friction Seals
- V - Viton Seals (0 to +400°F)
- W - Rod Wiper (Buna N Only)

*Not available in 3/8" bore.

Dimensional Comparison: Parker L/P*, Bimba Flat 1, Fabco Pancake, and Compact Air Compact Type Cylinder

	① 1/8 Bore				1/4 Bore				① 1/2 Bore				① 1 1/2 Bore				2 Bore			
	L/P	Bimba	Fabco	Compact Air	L/P	Bimba	Fabco	Compact Air	L/P	Bimba	Fabco	Compact Air	L/P	Bimba	Fabco	Compact Air	L/P	Bimba	Fabco	Compact Air
C	1/8	1/8	1/8	N/A	1/8	1/8	1/8	1/16	1/8	1/8	9/64	1/8	1/8	1/8	9/64	1/8	1/8	1/8	9/64	1/8
E	1 1/8	1 1/8	1 1/8	N/A	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	1 1/2	2 1/8	2 1/8	2 3/4	2 1/8	3 1/8	3 1/8	3 1/4	3 1/8
AA	.875	.875	.875	N/A	1.219	1.219	1.19	1.125	1.687	1.687	1.69	1.500	2.187	2.187	2.39	2.000	2.687	2.687	2.81	2.500
FB	#4	#4	#6	N/A	#6	#6	#6	① #10	#6	#6	#10	① #10	#10	#10	#10	① #10	#10	#10	1/4	① 1/4
LB	.625	.562	.643	N/A	.656	.562	.638	.750	.921	.875	.755	.750	1.000	.875	.875	1.000	1.062	.937	.935	1.125
ZB	.750	.687	.768	N/A	.781	.687	.768	.812	1.046	1.000	.895	.875	1.125	1.000	1.015	1.125	1.187	1.062	1.075	1.250

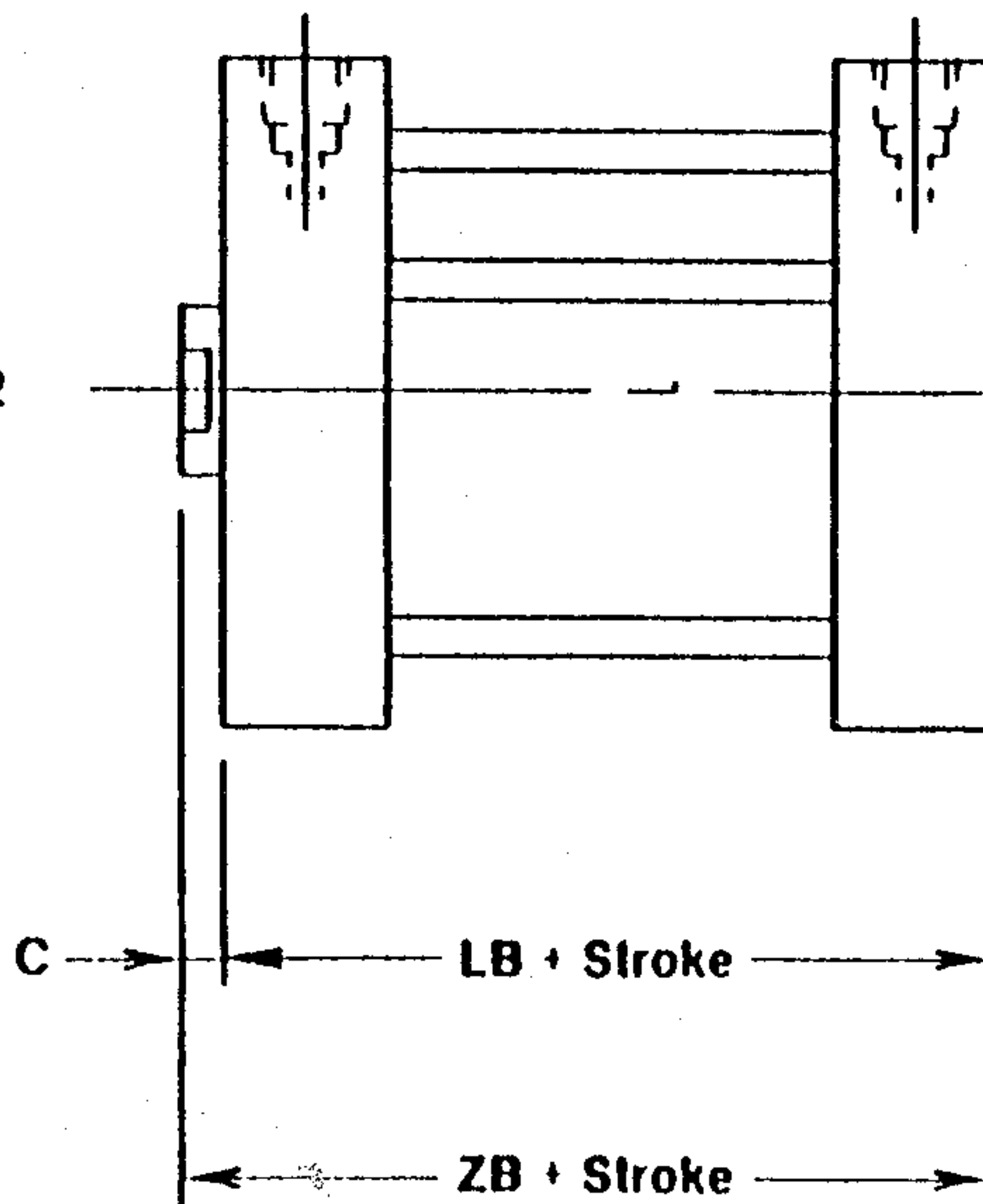
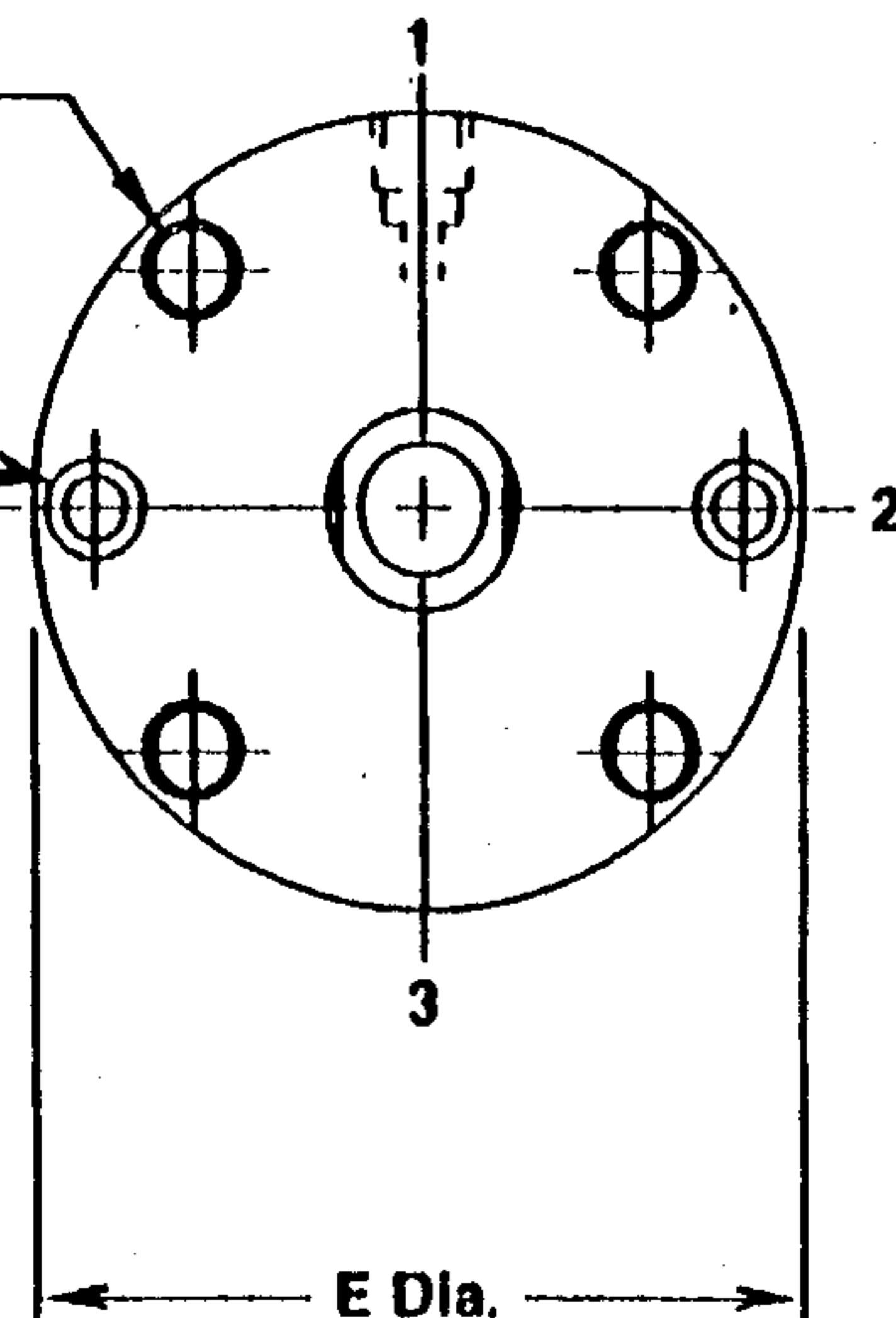
	2 1/2 Bore				3 Bore				4 Bore			
	L/P	Bimba	Fabco	Compact Air	L/P	Bimba	Fabco	Compact Air	L/P	Bimba	Fabco	Compact Air
C	1/8	1/8	3/64	1/8	1/8	1/8	3/64	1/8	1/8	1/8	13/64	1/8
E	3 3/4	3 3/4	3 3/4	3 1/2	4 1/4	4 1/4	4 1/4	4	5 1/2	5 1/2	5 1/2	5
AA	3.250	3.250	3.250	3.000	3.781	3.781	3.81	3.500	4.937	4.937	5.000	4.500
FB	1/4	1/4	1/4	① 1/4	1/4	1/4	1/4	① 5/16	5/16	5/16	1/4	① 5/16
LB	1.250	1.187	1.185	1.250	1.281	1.250	1.255	1.500	1.625	1.562	1.562	1.625
ZB	1.375	1.312	1.325	1.375	1.406	1.375	1.395	1.625	1.750	1.687	1.765	1.750

L/P MOUNTING HOLES

C Bore and hole thru for "FB" Soc. Hd. Cap Screws, (4) places as shown on "AA" B.C. — except 1/8 and 1/4 bore.

1/8 AND 1/4 BORES

C Bore and hole thru for "FB" Soc. Hd. Cap Screws on "AA" B.C. (2) holes position 2 and 4 as shown.



- ① Bimba has 1 1/8 Bore
- ② Fabco and Compact Air have 1 1/2 Bore
- ③ Compact Air has tapped holes instead of thru mounting holes.
- ④ Fabco has 1/2 Bore.

NOTE: Rod End Dimensions
Fabco and Compact Air rod diameters and female tap vary from L/P on some sizes.

NUMBER OF MOUNTING HOLES				
Bore	L/P	Bimba	Fabco	Compact Air
① 1/8	2	2	2	N/A
1/4	2	4	2	4
① 1 1/2	4	4	2	4
② 1 1/2	4	4	2	4
2	4	4	2	4
2 1/2	4	4	4	4
3	4	4	4	4
4	4	4	4	4

*Lin-Act Shor-T® and the Low Profile Compact Cylinder are directly interchangeable.

