

# Standard Series

## Flat-I® cross-over to Fabco-Air Pancake® II

Series
<b>FO</b> - Double acting, single rod
<b>FOD</b> - Double acting, double rod
<b>FOS</b> - Single acting, spring retracted
<b>FOR</b> - Reverse acting, spring extended

Bore Size	
02 - 1/2"	31 - 2"
04 - 3/4"	50 - 2-1/2"
09 - 1-1/16"	70 - 3"
17 - 1-1/2"	125 - 4"

Stroke Length	
0.125	- 1/8"
0.250	- 1/4"
0.375	- 3/8"
etc.	

**Flat-I®  
Model Number  
Code**

FO - 31 0.375 - 3V

### Flat-I® Mounting Options Fabco

Counterbored mounting holes are standard in the basic model and need not be specified. For other mounting specify only one option code.

Flat-I®	Mounting Description	Fabco
1	Pivot mount pin in-line with port	SM
1N	Pivot mount pin 90° from port	PM
2	Trunnion mount, both ends	TB
2F	Trunnion mount, front	TF
2R	Trunnion mount, rear	TR
3	Threaded mounting holes, both ends	HB
3F	Threaded mounting holes, front	HF
3R	Threaded mounting holes, rear	HR
4	Screw clearance holes, both ends	CB
4F	Screw clearance holes, front	CF
4R	Screw clearance holes, rear	CR
5	Nose mount for single rod models	F



**Pancake® II Model Number Code**

### Flat-I® Model Options Fabco

Codes are entered in alphabetical order, except EE which is last

Flat-I® Code	Option Description	Fabco Code
B	Bumpers, both ends	B
BF	Bumper, front only	BF
BR	Bumper, rear only	BR
CFT	Coarse female rod thread	TCF
CMT	Male rod end with coarse thread	TCM
G	Magnalube® G	Standard
H	Hollow rod, double end models only For Fabco, "T" in model code specifies double rod, hole thru	(use "T" in model code)
HD	Heavy duty rear head	H
J	Failsafe operation (PSR models)	J
L	Low friction seals	L
M, M1, M3, M4	Magnet on piston; switch mounting post For Fabco, specify option "E" and order spacer mounted clamp separately – or – use a Fabco "M" option below	E
Not available	Magnet on piston with adhesive mounted dovetail extrusion for 1/4" dovetail sensors	M, M1, M3, M4
MT	Male rod end, fine thread	TFM
NT	Non-threaded rod	TN
P2, P3, P4	Front port position other than standard	P2, P3, P4
Q	Low temperature operation (-40°F to +200°F)	Q
S	Stainless steel fasteners	Standard
T1, T3, T4	Additional switch mounting post located in position 1, 3, or 4 For Fabco use spacer mounted clamps – or – "T" option below	T1, T3, T4
Not available	Additional adhesive mounted dovetail extrusions in position 1, 3, or 4	T1, T3, T4
V	Viton seals for media compatibility (-15°F to +225°F)	V
W	Rod wiper, Buna N only	W
Y	Moly-coat (MoS <sub>2</sub> I.D. coating)	Not available
EE	Extra rod extension	X
Example		
EE0.375	- 3/8" extra rod extension, etc.	X0.375, etc.
EE1	- 1" extra rod extension, etc.	X1, etc

Series Model Action Bore - Mounting Stroke Options  
P S D 5 - HB 0.375 - V

Model	Action	Bore
<b>S</b> - single rod	<b>D</b> - double acting	<b>1</b> - 1/2"
<b>W</b> - double rod	<b>R</b> - single acting, spring retract (Model S only)	<b>2</b> - 3/4"
<b>T</b> - double rod, hole thru	<b>X</b> - single acting, spring extend (Model S only)	<b>3</b> - 1-1/16"
		<b>4</b> - 1-1/2"
		<b>5</b> - 2"
		<b>6</b> - 2-1/2"
		<b>7</b> - 3"
		<b>8</b> - 4"

Stroke
<b>0.125</b> - 1/8"
<b>0.250</b> - 1/4"
<b>0.375</b> - 3/8"
<b>0.500</b> - 1/2"
etc., thru
<b>4.000</b> - 4"

# Nonrotating, Twin Rod Series

## Flat-II® cross-over to Fabco-Air Pancake® II

Series
<b>FT-</b> Nonrotating, Double acting Twin Rod

Bore Size
04 - 3/4"
09 - 1-1/16"
17 - 1-1/2"
31 - 2"

Stroke Length
0.125 - 1/8"
0.250 - 1/4"
0.375 - 3/8"
etc.

**Flat-II®  
Model Number  
Code**

FT - 09 0.375 - 1 CE

### Flat-II® Mounting Options Fabco

Counterbored mounting holes are standard in the basic model and need not be specified. For other mounting specify only one option code.

Flat-II®	Mounting Description	Fabco
1	Pivot mount pin in-line with port	SM
1N	Pivot mount pin 90° from port	PM
2	Trunnion mount, both ends	TB
2F	Trunnion mount, front	TF
2R	Trunnion mount, rear	TR
3	Threaded mounting holes, both ends	HB
3F	Threaded mounting holes, front	HF
3R	Threaded mounting holes, rear	HR
4	Screw clearance holes, both ends	CB
4F	Screw clearance holes, front	CF
4R	Screw clearance holes, rear	CR



**Pancake® II Model Number Code**

### Flat-II® Model Options Fabco

*Codes are entered in alphabetical order, except EE which is last*

Flat-II® Code	Option Description	Fabco Code
CE	Counterbored rod end tool bar	CE
G	Magnalube® G	Standard
K	Rod end tool bar rotated 90°	K
M, M1, M3, M4	Magnet on piston; switch mounting post For Fabco, specify option "E" and order spacer mounted clamp separately – or – use a Fabco "M" option below	E
Not available	Magnet on piston with adhesive mounted dovetail extrusion for 1/4" dovetail sensors.	M, M1, M3, M4
P3	Front port position other than standard	P2, P3, P4
Q	Low temperature operation (-40°F to +200°F)	Q
S	Stainless steel fasteners	Standard
T1, T3, T4	Additional switch mounting post located in position 1, 3, or 4 For Fabco use spacer mounted clamps – or – "T" option below	
Not available	Additional adhesive mounted dovetail extrusions in position 1, 3, or 4	T1, T3, T4
V	Viton seals for media compatibility (-15°F to +225°F)	V
Y	Moly-coat (MoS <sub>2</sub> I.D. coating)	Not available
EE	Extra rod extension	X
Example		
EE0.375	3/8" extra rod extension, etc.	X0.375, etc.
EE1	1" extra rod extension, etc.	X1, etc.

Series Model Action Bore - Mounting Stroke - Options  
P N D 3 - SM 0.375 - CE

Model
<b>N</b> - Nonrotating Twin Rod

Action
<b>D</b> - double acting

Bore
<b>2</b> - 3/4"
<b>3</b> - 1-1/16"
<b>4</b> - 1-1/2"
<b>5</b> - 2"

Stroke
<b>0.125</b> - 1/8"
<b>0.250</b> - 1/4"
<b>0.375</b> - 3/8"
<b>0.500</b> - 1/2"
etc., thru
<b>4.000</b> - 4"

Series
<b>P</b> - Pancake II

# Multi-Power® Series

## Flat-I® cross-over to Fabco-Air Pancake® II

Series
<b>FO2</b> - 2 stage extend, single stage retract
<b>FO3</b> - 3 stage extend, single stage retract
<b>FO4</b> - 4 stage extend, single stage retract

Bore Size
50 - 2-1/2"
70 - 3"
125 - 4"

Stroke Length
0.125 - 1/8"
0.250 - 1/4"
0.375 - 3/8"
etc.

**Flat-I®  
Model Number  
Code**

FO3 - 50 0.750 - 3 M

Flat-I®	Mounting Options	Fabco
<b>Flat-I®</b>	<b>Mounting Description</b>	<b>Fabco</b>
3	- Threaded mounting holes, both ends . . . .	HB
3F	- Threaded mounting holes, front . . . . .	HF
3R	- Threaded mounting holes, rear . . . . .	HR
4	- Screw clearance holes, both ends . . . . .	CB
4F	- Screw clearance holes, front . . . . .	CF
4R	- Screw clearance holes, rear . . . . .	CR

Flat-I®	Model Options	Fabco
<i>Codes are entered in alphabetical order, except EE which is last</i>		
<b>Flat-I® Code</b>	<b>Option Description</b>	<b>Fabco Code</b>
CFT	- Coarse female rod thread, dimension E . . . . .	TCF
CMT	- Male rod end with coarse thread . . . . .	TCM
G	- Magnalube® G . . . . .	Standard
L	- Low friction seals . . . . .	L
M, M1, M3, M4	- Magnet on piston; switch mounting post . . . . .	E
	For Fabco, specify option "E" and order spacer mounted clamp separately – or – use a Fabco "M" option below	
Not available	- Magnet on piston with adhesive mounted dovetail extrusion for 1/4" dovetail sensors. . . . .	M, M1, M3, M4
MT	- Male rod end, fine thread . . . . .	TFM
NT	- Non-threaded rod . . . . .	TN
P2, P3, P4	- Front port position other than standard . . . . .	P2, P3, P4
P6, P7, P8	- Rear port position other than standard . . . . .	P6, P7, P8
Q	- Low temperature operation (-40°F to +200°F) . . . . .	Q
T1, T3, T4	- Additional switch mounting post located in position 1, 3, or 4 . . . . .	
	For Fabco use spacer mounted clamps – or – "T" option below	
Not available	- Additional adhesive mounted dovetail extrusions in position 1, 3, or 4 . . . . .	T1, T3, T4
V	- Viton seals for media compatibility (-15°F to +225°F) . . . . .	V
W	- Rod wiper, Buna N only . . . . .	W
Y	- Moly-coat (MoS2 I.D. coating) . . . . .	Not available
EE	- Extra rod extension . . . . .	X
Example		
EE0.375	- 3/8" extra rod extension, etc. . . . .	X0.375, etc.
EE1	- 1" extra rod extension, etc. . . . .	X1, etc.



**Pancake® II Model Number Code**

Series Model Action Bore - Mounting Stroke - Options  
P A 3 6 - HB 0.75 - E or M

Multi-Power® Model and Action	
<b>A2</b>	- 2 stage extend, single stage retract
<b>A3</b>	- 3 stage extend, single stage retract
<b>A4</b>	- 4 stage extend, single stage retract
<b>B2</b>	- single stage extend, 2 stage retract
<b>B3</b>	- single stage extend, 3 stage retract
<b>B4</b>	- single stage extend, 4 stage retract

Bore
6 - 2-1/2"
7 - 3"
8 - 4"

Stroke
0.125 - 1/8"
0.250 - 1/4"
0.375 - 3/8"
0.500 - 1/2"
etc., thru
4.000 - 4"

Series  
**P - Pancake II**

# Multi-Position Series

## Flat-I® cross-over to Fabco-Air Pancake® II

Series	Bore Size		Stroke Length A	Stroke Length B
<b>FOP</b> Double acting, multiple position, single rod	02 - 1/2"	31 - 2"	0.250 - 1/4"	0.250 - 1/4"
	04 - 3/4"	50 - 2-1/2"	0.375 - 3/8"	0.375 - 3/8"
	09 - 1-1/16"	70 - 3"	0.500 - 1/2"	0.500 - 1/2"
	17 - 1-1/2"	125 - 4"	etc.	etc.

**Flat-I®  
Model Number  
Code**

FOP - 31 0.375 / 1.500 - 3 V

### Flat-I® Mounting Options Fabco

Counterbored mounting holes are standard in the basic model and need not be specified. For other mounting specify only one option code.

Flat-I®	Mounting Description	Fabco
1	- Pivot mount pin in-line with port	SM
1N	- Pivot mount pin 90° from port	PM
3	- Threaded mounting holes, both ends	HB
3F	- Threaded mounting holes, front	HF
3R	- Threaded mounting holes, rear	HR
4	- Screw clearance holes, both ends	CB
4F	- Screw clearance holes, front	CF
4R	- Screw clearance holes, rear	CR



### Flat-I® Model Options Fabco

*Codes are entered in alphabetical order, except EE which is last*

Flat-I® Code	Option Description	Fabco Code
CFT	- Coarse female rod thread, dimension E	TCF
CMT	- Male rod end with coarse thread	TCM
G	- Magnalube® G	Standard
L	- Low friction seals	L
M, M1, M3, M4	- Magnet on piston; switch mounting post For Fabco, specify option "E" and order spacer mounted clamp separately – or – use a Fabco "M" option below	E
Not available	- Magnet on piston with adhesive mounted dovetail extrusion for 1/4" dovetail sensors.	M, M1, M3, M4
MT	- Male rod end, fine thread	TFM
NT	- Non-threaded rod	TN
P2, P3, P4	- Front port position other than standard	P2, P3, P4
P6, P7, P8	- Rear port position other than standard	P6, P7, P8
Q	- Low temperature operation (-40°F to +200°F)	Q
S	- Stainless steel fasteners	Standard
T1, T3, T4	- Additional switch mounting post located in position 1, 3, or 4 For Fabco use spacer mounted clamps – or – "T" option below	
Not available	- Additional adhesive mounted dovetail extrusions in position 1, 3, or 4	T1, T3, T4
V	- Viton seals for media compatibility (-15°F to +225°F)	V
W	- Rod wiper, Buna N only (page 8)	W
Y	- Moly-coat (MoS <sub>2</sub> I.D. coating)	Not available
EE	- Extra rod extension	X
Example		
EE0.375	- 3/8" extra rod extension, etc.	X0.375, etc.
EE1	- 1" extra rod extension, etc.	X1, etc.

**Pancake® II Model Number Code**

Series **P** Model **3** Action **D** Bore **4** - Mounting **SM** Stroke A / Stroke B **0.375 / 1.500** - Options **V**

Series	Model and Action	Bore
<b>P - Pancake II</b>	<b>3D</b> - 3-position, double acting	<b>1</b> - 1/2" <b>2</b> - 3/4" <b>3</b> - 1-1/16" <b>4</b> - 1-1/2" <b>5</b> - 2" <b>6</b> - 2-1/2" <b>7</b> - 3" <b>8</b> - 4"

Stroke A	Stroke B
0.125 - 1/8"	0.125 - 1/8"
0.250 - 1/4"	0.250 - 1/4"
0.375 - 3/8"	0.375 - 3/8"
0.500 - 1/2"	0.500 - 1/2"
etc., thru	etc., thru
4.000 - 4"	4.000 - 4"