

NEW - Stopper Cylinders "ST" Series

FABCO-AIR. Inc. • 3716 N.E. 49th Avenue • Gainesville, FL 32609 • Tel (352) 373-3578 Fax (352) 375-8024 • E-Mail: fabco@fabco-air.com • Web Site: www.fabco-air.com

Features

Magnetic piston is included as a standard feature.

Rugged body is machined from aluminum extrusion and mounts rigidly to equipment in a minimum of space.

A variety of styles are offered to meet different application requirements.

The direction of rollers are adjustable for use in different applications.

✓ Shock absorbers are available as safety stops.

 Magnetic sensors can be mounted on cylinder surfaces when input signals are required for controllers.

Standard Stroke Table

1) Specify "ST"

3) Specify the bore

5) Specify action

4) Specify the stroke

Stroke / Bore	10	15	20	25	30
ø32	-	-	1	N/A	N/A
ø40	N/A	N/A	-	-	1
ø50	N/A	N/A	-	-	1

- For shorter strokes consult factory. ✓ Standard N/A = Not available

How to Order



Specifications

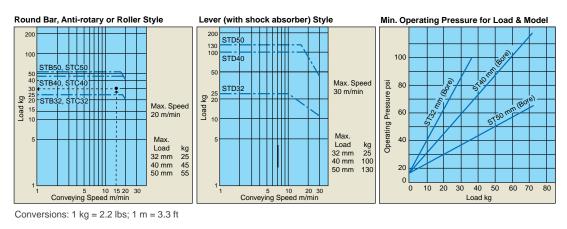
Double Acting, Magnetic Piston
32, 40 and 50mm
Compressed Air
145 psi (10 bar)
50 - 100 mm/sec
–10°C to + 70°C (14°F to 158°F)
Air line lubrication recommended
Buna-N bumpers at both ends
+1.4 / - 0
See page 5 for ordering information

x 2 3 Series Rod end style Bore (mm) Stroke (mm) Action Ports Blank = NPT A = Round bar ø32 20: ø32 A: Double acting 3) Specify the rod end style P = BSP Taper **B** = Anti-rotation ø40 30: ø40 B: Double acting C = Roller ø50 30: ø50 with built-in spring D = Lever extended rod F = Lever w/Lock-out cap C: Single acting, G = Lever w/Latch spring extended rod Note: Please order sensors separately H = Lever w/Latch & Lock-out cap from the tables on page 5

Selection Guide

Example:

Roller Style Stopper Cylinder with 30 kg load moving at 15 m/min. Locate intersection of conveying speed & load in the chart (shown as black dotted lines on the chart). Choose nearest next larger size, STC40, for the model which is acceptable for the application.



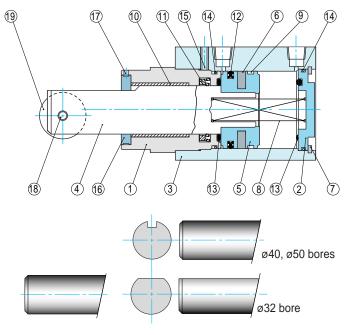


"ST" Stopper Cylinders

- Construction

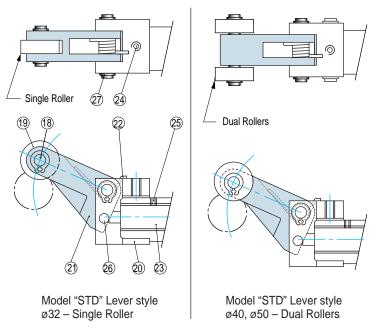
FABCO-AIR, Inc. • 3716 N.E. 49th Avenue • Gainesville, FL 32609 • Tel (352) 373-3578 • Fax (352) 375-8024 • E-Mail: fabco@fabco-air.com • Web Site: www.fabco-air.com

Roller Style (STC) – Action "B" shown





‡ Model "STB" Anti-rotation style
Ø32 Bore - Flatted shaft with matching plate
Ø40 & Ø50 bores - pin, roller & slot in shaft



† Shock absorber is a standard feature of all Lever Style Models

		Quick Refe	rence	to C	omponents		
No.	Description	Material	Qty.	No.	Description	Material	Qty.
1	Front end cover	Anodized aluminum alloy	1	15	Set screw	Carbon steel	1
2	Rear end cover	Anodized aluminum alloy	1	16	Anti-rotating plate ‡	POM	1
3	Housing	Anodized aluminum alloy	1	17	Set screw	Carbon steel	1
4	Piston rod	Hard chrome plated stainless steel	1	18	Pin	Hardened alloy steel	2
5	Piston	Aluminum alloy	1	19	Roller	POM	See Dwg.
6	Magnet	Magnet	1	20	Connector	Cast iron	1
7	Snap ring	Carbon steel	1	21	Driven block	Carbon steel	1
8	Spring	Piano wire	1	22	Spring	Piano wire	1
9	Wear ring	Synthetic resin	1	23	Shock absorber †	-	1
10	Bushing	Oil filled, sintered bronze	1	24	Set screw	Carbon steel	2
11	Seal	Buna-N	1	25	Set screw †	Carbon steel	1
12	Seal	Buna-N	1	26	Steel ball	Carbon steel	1
13	O'Ring	Buna-N	2	27	Snap ring	Carbon steel	4
14	O'Ring	Buna-N	1				

‡ Anti-rotation plate can be released from locking set screws to orient rod flat, rollers or lever to other positions.

† The shock absorber is easily removed for screw adjustment of the damping characteristics.

	Weight Table (lbs)										
Action	Bore	Rod End Style	Rod End Style 10 15 20 25								
Cingle esting	ø32	Round bar, Anti-rotation, Roller	0.92	0.97	1.01	-	_				
Single acting,		Lever	1.12	1.17	1.21	-	_				
Double acting,	ø40	Round bar, Anti-rotation, Roller	—	—	1.62	1.76	1.89				
Double acting		Lever	_	—	2.13	2.22	2.31				
with built-in sprin	g ø50	Round bar, Anti-rotation, Roller	-	—	2.26	2.35	2.44				
		Lever	-	-	2.77	2.86	2.95				

Specifications subject to change without notice or incurring obligation

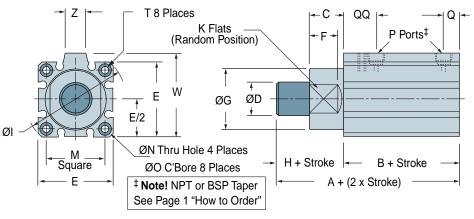


"ST" Stopper Cylinders

- Dimensions

FABCO-AIR Inc. • 3716 N.E. 49th Avenue • Gainesville, FL 32609 • Tel (352) 373-3578 • Fax (352) 375-8024 • E-Mail: fabco@fabco-air.com • Web Site: www.fabco-air.com

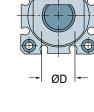


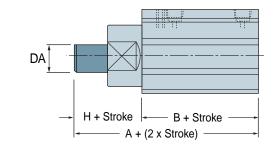


32609 • TAntizrotation style (STB) /eb Site: www.fabco-air.com

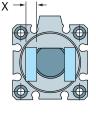


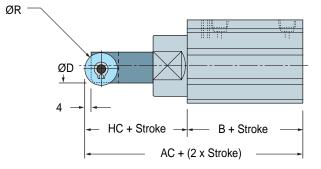
Roller Style (STC)











Dimensions (mm)

Bore (mm)	Α	AC	В	С	ØD	DA	Е	F	ØG	н	HC	I	K	М
ø32	68	88.5	48	20	20	18	45	13	36	20	40.5	60	32	34
ø40	80.5	106	52.5	28	25	22.5	52	15	44	28	53	69	41	40
ø50	82	107	54	28	25	22.5	64	15	56	28	53	86	50	50

Bore (mm)	ØN	ØO	Р	Q	QQ	ØR	T Threads	W	Х	Z
ø32	5.5	9 x 7 dp	1/8	9	20	20	M6 x 1.0 - 10 dp	49.5	6	18
ø40	5.5	9 x 7 dp	1/8	10	24.5	24	M6 x 1.0 - 10 dp	57	8	18
ø50	6.6	11 x 8 dp	1/4	10	24.5	24	M8 x 1.25 - 14 dp	71	8	22

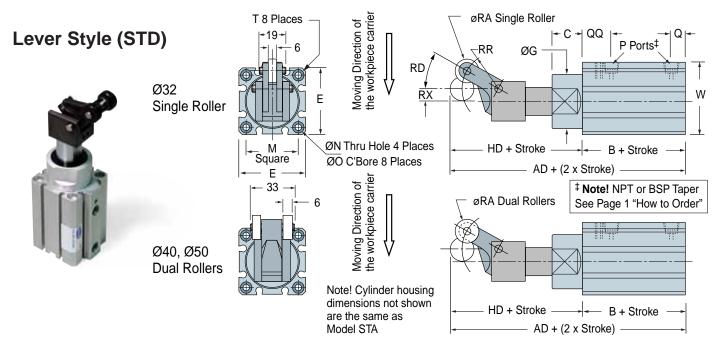
Specifications subject to change without notice or incurring obligation



"ST" Stopper Cylinders

- Dimensions

FABCO-AIR, Inc. • 3716 N.E. 49th Avenue • Gainesville, FL 32609 • Tel (352) 373-3578 • Fax (352) 375-8024 • E-Mail: fabco@fabco-air.com • Web Site: www.fabco-air.com



Lever Style (STF) - with lockout cap

A ball-chain retained lockout cap fits over the shock absorber stem to position the roller out of the conveyor stream.



Lever Style (STG)- with latch



Lever Style (STH) – with latch and lockout cap

Latch is the same as STG; lockout cap is the same as STF.

Dimensions (mm)

Bore (mm)	AD	В	С	Е	ØG	HD	М	ØN	ØO
ø32	120.5	48	20	45	36	72.5	34	5.5	9 x 7 dp
ø40	152.5	52.5	28	52	44	100	40	5.5	9 x 7 dp
ø50	154	54	28	64	56	100	50	6.6	11 x 8 dp

Bore (mm)	Р	Q	QQ	ØRA	RD	RR	RX	T Threads	W
ø32	1/8	9	20	15	30°	28	10.5	M6 x 1.0 - 10 dp	49.5
ø40	1/8	10	24.5	20	24°	38	14	M6 x 1.0 - 10 dp	57
ø50	1/4	10	24.5	20	24°	38	14	M8 x 1.25 - 14 dp	71

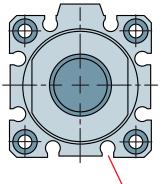
Specifications subject to change without notice or incurring obligation



Magnetically Actuated Sensors

FABCO-AIR, Inc. • 3716 N.E. 49th Avenue • Gainesville, FL 32609 • Tel (352) 373-3578 • Fax (352) 375-8024 • E-Mail: fabco@fabco-air.com • Web Site: www.fabco-air.com

Magnetic Piston is a standard feature of Fabco-Air stopper cylinders. When position sensing is desired for input to signal controllers, Fabco-Air sensors mount easily and securely in slots on the cylinder body.

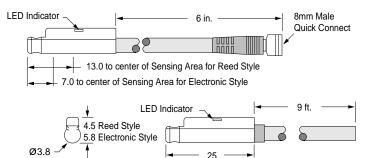




Rod end view showing 4mm keyhole slots on an anti-rotation ST Series stopper cylinder

4mm keyhole slots for mounting sensors shown on ø63 bore (8 places)

Sensor Dimensions (mm unless noted)



All sensors feature surge supression, polarity protection, LED indicator, and extremely fast switching speeds.

Round Profile Sensors feature surge suppression, polarity protection, LED indicator, and extremely fast switching speeds. They slide into mating 4mm keyhole slots on either side of the cylinder housing and are easily positioned and locked in place with a set screw. They are offered in two styles: a quick connect style with a 6 inch pigtail and male connector, or a prewired style with a 9 foot lead.

Female Cordsets are available in both 3 and 4 pin configurations in 2 and 5 meter lengths.

Order sensors and cordsets separately from the tables below.





Prewired sensor shown with 9 ft. lead

3 pin cordset shown with sensor pigtail

8mm Female Cordsets for Quick Connect Sensors							
Cordset Description	Part No.						
2 meters, 3-Pin	CFC-2M						
5 meters, 3-Pin	CFC-5M						
2 meters, 4-Pin	CFC4-2M						
5 meters, 4-Pin	CFC4-5M						

Magnetic S	ensors –	Electrica	Part Numbers	s and Prices				
Sensor Type	Function	Switching Voltage	Switching Current	Switching Power	Switching Speed	Voltage Drop	Prewired 9 ft. Part No.	Quick Connect Part No.
Reed Switch for PLC's w/LED (current limiting)	SPST Normally Open	5-120V AC/DC 50/60 Hz	0.04 Amp max 0.005 Amp min.	4 Watts max.	0.5 ms operate 0.1 ms release	2.5 Volts	9C49-000-002	9C49-000-302 Requires 3 pin cordset
Electronic LED and Sourcing	PNP Normally Open	6-30 VDC	0.2 Amp max.	6 Watts max.	1.5µs operate 0.5µs release	1.5 Volts	9C49-000-031	9C49-000-331 Requires 3 pin cordset
Electronic LED and SInking	NPN Normally Open	6-30 VDC	0.2 Amp max.	6 Watts max.	1.5µs operate 0.5µs release	1.5 Volts	9C49-000-032	9C49-000-332 Requires 3 pin cordset
Electronic LED & Dual Output Sinking or Sourcing	Normally Open NPN or PNP Output	6-30 VDC	0.2 Amp max.	6 Watts max.	1.5µs operate 0.5µs release	1.5 Volts	9C49-000-050	9C49-000-350 Requires 4 pin cordset

Specifications and prices subject to change without notice or incurring obligation

FABCO-AIR, Inc. • 3716 N.E. 49th Avenue • Gainesville, FL 32609 • Tel (352) 373-3578 15M-0206-DIXON



• Fax (352) 375-8024 • E-Mail: fabco@fabco-air.com • Web Site: www.fabco-air.com

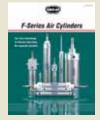
Fabco-Air Product Catalog Library

APO

er Air Presses



Cylinders, Valves & Accessories Catalog CV9 details Pancake[®], Square 1[®], Multi-power[®], Hi-Power™ and Longstroke[™] air cylinder lines. Describes valves, air-over-oil tanks, boosters & accessories.



Stainless Steel Body Air Cvlinders Catalog SSB-03

Exact interchange in bores from 5/16" to 3", strokes to 32". Popular options includes magnetic piston, non-rotating, and position feedback.

Pancake® II Cylinders

composite cylinder barrel.

Nonrotating, Multi-Power®

Catalog Pan2-2

and 3-position.

The direct industrial



Global Series™ Air Cylinders Cat. GC-15 Widest choice of models

and options. Features nonlube service to 150 psi. Bores 12mm to 100mm Strokes 5mm - 150mm NPT or Metric ports

Multi-Power® Air Presses Catalog FP16 Details the powerful line of precision, forcemultiplying air presses. Deliver forces to 11,000 pounds.

New Linear Thrusters

Features longer strokes

surge suppression and

polarity protection.

to 10" - and 4mm round profile sensors with

Bulletin GB-JA02

COLUMN ST





Specialty Valves

Dual Function Slides

Either of two slide styles

(gantry or thruster) can

be made from a single

set of parts. Users can

inventory less parts and

Air Preparation - FRLs

Broad line with port sizes

includes new 3-way slide

valves. Modular assem-

bly. New 3-way lock out/

equipment maintenance.

Clamp arm rotates 90° as

it extends away from the

standard magnetic piston.

workpiece. Features

tag out valves for safe

Swing Clamps Bulletin #SC-DB04

from 1/8 NPT to 1 NPT

assemble styles as

Catalog #FRL-06

needed.

Bulletin EDF-10

and Control Valves Bulletin #14CAN Composite body solenoid

valves in 2 or 3-way, N/O or N/C, and manifoldable configurations. • Process Solenoid valves. • 5 Ported, 3 position, 1/4 NPT 4-way air valves.





Pneumatic Grippers Catalog GR-8 • SPG & LPG parallel

jaw motion with strokes from 1/4" to 24" & forces to 402 lbs. • GR & GS angular jaw styles with on-the-fly adjustment.



Linear Slides Catalog # LS-03 Line includes 6 families of slides, pick & place units, and thin parts placers. 5/16" to 4" bores. Guide shafts 1/4" to 1-1/2".





to 6"; strokes to 99". Aluminum or high strength composite cylinder body. Magnetic position sensing. Distributed by: