Features

Series S

Silverair round cylinders are designed for application in OEM and MRO applications where a disposable, light duty cylinder is preferred. Prelubed, they're suitable for operations without externally applied lubrication. Constructed of stainless steel and aluminum, they stand up to the attack of corrosive environments.

- Silverair cylinders feature stainless steel (Series 304) barrels. Drawn and polished internal diameters have superior lube-holding characteristics for a low friction surface that gives smooth performance and outstanding cycle life.
- Piston rods are centerless ground and polished Series 303 stainless steel, providing smooth rod movement.
- Lightweight aluminum heads feature full flow ports for maximum air flow and smooth response.
- Piston rod threads are roll formed to provide superior strength and durability.
- U-cup design on piston seals provides continuous cylinder barrel contact, minimizes blow-by and offers longer seal life than O-ring piston seals.
- The oil-permeated bronze rod bushing is precision ball sized for reduced friction and increased cylinder life.
- Return springs on single-acting cylinders are made from a high tensile alloy for exceptional performance and long service life.
- Silverair cylinders are prelubricated, so they're ideal in applications where external lubrication can't be supplied.

Performance Specifications

Bore Sizes:	1/2", 3/4", 1-1/16", 1-1/4", 1-1/2", 2" & 2-1/2"
Air Pressure:	to 200 p.s.i. (14 bar)
Operating Temperature Range:	-40° to 160° F (18° to 82° C)
Maximum Output Force:	982 pounds (2-1/2-inch bore cylinder)
Viton Seals Models:	For high heat applications, consult factory

Range of mounting styles and attachable mounts/accessories covers wide range of application requirements. Magnetic pistons available for use with Hall Effect or Reed Switches.



See following page.



▼ Ordering Include dashes. Dashes are significant.

Position	1	2	3		4	5	6	7		8	
Example:	S	X	XX	-	X	Х	X	Х	-	XX	X

Position 1 Series	Position 2 Cylinder Type		Positon 3 Bore Size
S - Stainless Steel	S - Single Acting, Spring Return	05	1/2"
	(Not available on 25 bore size)	07	3/4"
	D - Double Acting	11	1-1/16"
	R - Single Acting, Spring Extend	14	1-1/4" (Not available on type SH)
	(Not available on 25 bore size)	15	1-1/2"
	H - Single Acting, Hex Rod (Non-rotating rod)	17	1-3/4" (Not available on type SH)
	(Spring return only)Not available on 14,	20	2" (Not available on type SH)
	17,20 or 25 bore sizes)	25	2-1/2" (Not available on type SS, SR or SH)

Position 4 Mounting Style	Position 5 Magnet/Bumpers (Note A)	Positon 6 Packing	Positon 7 Wearsrtip (Note B)
B - Block Mount	4 - No Bumpers, no magnet	B - Buna N	4 - None (standard)
(Available on 05, 07, 11 and 15 bore	B - Bumpers	V - Viton	W - Wearstrip
size only)	M - Magnetic Piston		
(Not available on type SH)	(Not available in 1/2" bore or for		
D - Double Rod End	single-acting cylinders)		
(Double Acting Only)	For switch information, see page 23.		
N - Nose Mount			
P - Universal Mount			
(Pivot or Double End)			
Silverair attachable mounts must be ordered separately. See page 14			

	siton 8 se Length
Whole Inches 00 = 0" 01 = 1" 02 = 2" 03 = 3" 04 = 4" 05 = 5"	Fraction Inches 0 = None 1 = 1/8" 2 = 1/4" 3 = 3/8" 4 = 1/2" 5 = 5/8"
06 = 6" 10 = 10" etc.	6 = 3/4" 7 = 7/8"

Note A: Bumpers

- $\boldsymbol{\cdot}$ Not available with magnetic piston option.
- Standard on double rod ends.
- Do not affect external dimensions.

Note B: Wearstrip is standard on double-acting nose mount, universal mount and block front mount of 5" or more of stroke. Also on single acting, spring extend cylinders with 3" or more of stroke. Not available on 1/2" bore cylinders. Not available on single acting, hex rod (non-rotating rod)

NOTE: Bold selections denote most popular models.

For recommended maximum stroke lengths, per type, see pages $16\ \text{through}\ 21.$

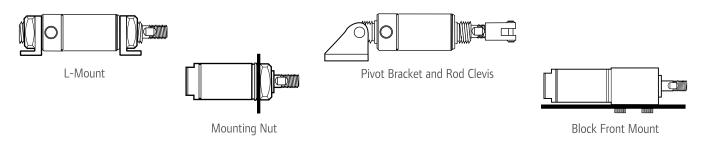
Ordering

Series S (Mounting Kits)

1/2	3/4	1-1/16	CYLINDER B 1-1/4	ORE (INCHES) 1-1/2	1-3/4	2	2-1/2
L-MOUNT	(Single Acting)						
Order Mount	ing Nut below.						
118108-5	118108-7	118108-11	118108-14	118108-14	118108-17	118108-20	118108-25
L-MOUNT	(DOUBLE ACTING))					
Order Mount	ing Nut below.						
118108-50	118108-11	118108-11	118108-14	118108-14	118108-17	118108-20	118108-25
MOUNTING	NUT (SINGLE AC	TING*)					
118109-5	118109-7	118109-11	118109-14	118109-14	118109-17	118109-20	118109-25
MOUNTING	NUT (DOUBLE A	CTING)					
118109-50	118109-11	118109-11	118109-14	118109-14	118109-17	118109-20	118109-25
PIVOT BRA	CKET (PIVOT PIN I	INCLUDED)					
117523-5	117523-7	117523-7	117523-14	117523-15	117523-15	117523-20	117523-20
ROD CLEVIS	(PIVOT PIN INCL	UDED)					
117555-5	117555-7	117555-11	117555-14	117555-14	117555-17	117555-17	117555-17
PIVOT PINS	(STANDARD EQU	JIPMENT)					
118119-5	118119-7	118119-7	118119-14	-	-	118119-20	-
RETAINER							
118592-5	118592-5	118592-5	118592-5	118592-15	118592-15	118592-15	-
OPTIONAL	PRESS FIT PIN						
118121-5	118121-7	118121-7	118121-14	118121-15	118121-15	-	-

· FOR DOUBLE E	ND MOUNTING OF SINGLE-ACTING CYLINDERS, ORDER THE FOLLOWING:
1/2-inch bore	One 118108-5 L-Mount and one 118109-5 Nut for rear mounting thread. One 118108-50
	L-Mount and one 118109-50 Nut for front mounting thread.
3/4-inch bore	Two 118108-7 L-Mounts, one 118109-7 Nut for rear mounting thread and one 118109-11 Nut
	for front mounting thread.

NOTE: Silverair accessories are bright zinc plated steel.

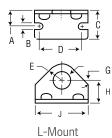


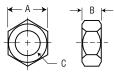
Dimensional Data

Series S (Mounting Kits)

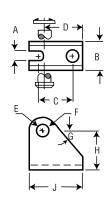
	CYLINDER BORE (INCHES)									
Dim Ref	1 Single Acting	/2 Double Acting	3, Single Acting	/4 Double Acting	1-1/16 All Types	1-1/4 All Types	1-1/2 All Types	1-3/4 All Types	2 All Types	2-1/2 All Types
	nt Brack		rioting	rioting	Туроо	1 3 5 0 0	1 y p 0 0	Туроо	Туроо	Туроо
A	.31	.31	.44	.56	.56	.75	.75	.94	1.00	1.00
В	.19	.19	.19	.27	.27	.73	.73	.34	.34	.34
С	.62	.62	.75	1.00	1.00	1.50	1.50	1.50	1.62	1.62
D	1.00	1.00	1.25	1.50	1.50	1.89	1.89	2.25	2.25	2.88
E	.37	.37	.40	.56	.56	.75	.75	.88	1.00	1.25
F	.38	.44	.50	.63	.63	.76	.76	1.04	1.38	1.50
G	56°	56°	45°	45°	45°	49°	49°	52°	60°	63°
Н	.57	.57	.69	.81	.81	1.00	1.00	1.25	1.50	1.75
J	1.38	1.38	1.63	1.88	1.88	2.50	2.50	3.00	3.00	3.75
Mounting Nut										
Α	.56	.68	.75	.93	.93	1.12	1.12	1.50	1.85	2.06
В	.22	.25	.31	.37	.37	.42	.42	.56	.50	.50
C	3/8-24	7/16-20	1/2-20	5/8-18	5/8-18	3/4-16	3/4-16	1-14	1-1/4-12	1-3/8-12

	1/2	3/4	1-1/16	NDER BORE (1-1/4	1-1/2	1-3/4	2	2-1/2
Dim Ref	All Types	AII Types	All Types	All Types	All Types	All Types	All Types	All Types
Pivot Bra	cket							
Α	.20	.26	.26	.32	.39	.39	.45	.45
В	.52	.65	.65	.77	.96	.96	1.20	1.20
C	.43	.75	.75	.75	1.00	1.00	1.00	1.00
D	.54	.87	.87	.94	1.25	1.25	1.43	1.43
E	.22	.31	.31	.31	.38	.38	.38	.38
F	.16	.26	.26	.26	.38	.38	.38	.38
G	50°	53°	53°	53°	52°	52°	48°	48°
Н	.64	.87	.87	1.06	1.37	1.37	1.68	1.68
J	.75	1.19	1.19	1.25	1.63	1.63	1.81	1.81
Rod Clevi								
Α	.38	.50	.50	.75	.75	.75	.75	.75
В	.19	.25	.25	.38	.38	.38	.38	.38
C	.75	.94	.94	1.30	1.30	1.30	1.30	1.30
D	.38	.50	.50	.75	.75	.75	.75	.75
E	10-32	1/4-28	5/16-24	7/16-20	7/16-20	1/2-20	1/2-20	1/2-20
F	.19	.25	.25	.38	.38	.38	.38	.38
G	.94	1.20	1.20	1.70	1.70	1.70	1.70	1.70
H	.12	.16	.16	.25	.25	.31	.31	.31
Pivot Pin								
	l with Pivot E							
Α	.69	.81	.81	.94	1.13	1.13	1.44	1.44
<u>B</u>	.15	.25	.25	.25	37	.37	.37	37
	t into pivot h							
Α	.50	.75	.75	.87	1.12	1.12	-	-
В	.15	.24	.24	.24	.37	.37	_	_
С	.17	.26	.26	.26	.39	.39	_	_

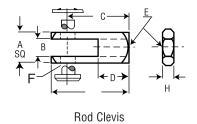




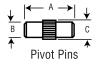
Mounting Nut



Pivot Bracket







Performance Specifications

Series S (Spring Return, Nose Mount)

Model SSXX-N4	B4-XXX - (Max. Stroke - 4 inches)
Bore sizes:	1/2", 3/4", 1-1/16", 1-1/4", 1-1/2" 1-3/4",
2"	
Hex Mounting Nut:	Standard (except on 2-inch models).
Options:	Wearstrip (except on 1/2-inch bore),
	bumper, Viton
Accessories:	L-mount, rod clevis
Notes:	No rod bushing on 1/2-inch models - front head
	is hard anodized.

Nonrotating	
Bore sizes:	1/2", 3/4", 1-1/16", 1-1/2"
Hex Mounting Nut:	Standard
Options:	Wearstrip (except on 1/2-inch bore),
Accessories:	L-mount, rod clevis
Notes:	No rod bushing - front head is hard anodized.

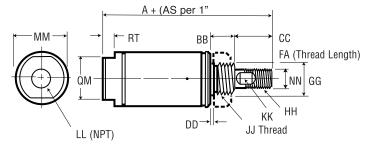
Series S (Spring Return, Universal Mount)

Model SSXX-P4	B4-XXX - (Max. Stroke - 4 inches)
Bore sizes: 2"	1/2", 3/4", 1-1/16", 1-1/4", 1-1/2" 1-3/4",
Options:	Wearstrip (except on 1/2-inch bore),
	bumper, Viton
Accessories:	Pivot bracket, rod clevis, L-mount, mounting nut.
	Order mounting nuts as required.
Notes:	No rod bushing on 1/2-inch models - front head
	is hard anodized.

Model SHXX-P4B4-XXX - (Max. Stroke - 4 inches)					
Nonrotating					
Bore sizes:	1/2", 3/4", 1-1/16", 1-1/2"				
Options:	Wearstrip (except on 1/2-inch bore), bumper, Viton				
Accessories:	Pivot bracket, rod clevis, L-mount, mounting nut. Order mounting nuts as required.				
Notes:	No rod bushing - front head is hard anodized.				

Dimensional Data

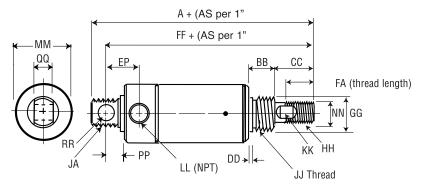
Series S (Spring Return, Nose Mount)



Spring Forces

Bore Size	Spring Fo Normal	orce (Ibs.) Actuated
1/2″	1	2
3/4"	1.5	5
1-1/16"	4	8
1-1/4"	7	14
1-1/2"	6	12
1-3/4"	12	24
2″	15	30

Series S (Spring Return, Universal Mount)



Dimensional Data

Series S

Series				CVI INDEE	R BORE (IN	CHE6/		
Dim Code	Cylinder Description	1/2	3/4	1-1/16	1-1/4	1-1/2	1-3/4	2
	Acting					,		
Α	SSXX-N4B4-XXX	1.81	2.00	2.56	3.41	3.19	3.85	4.17
Α	SHXX-N4B4-XXX	2.06	2.25	2.68	-	3.44	-	_
Α	SSXX-P4B4-XXX	2.50	3.06	3.44	4.50	4.25	5.41	5.54
Α	SHXX-P4B4-XXX	2.75	3.31	3.56	_	4.50	-	_
AS	SSXX-N4B4-XXX	1.88	1.69	1.56	1.81	1.69	2.00	2.00
AS	SHXX-N4B4-XXX	1.88	1.69	1.56	_	1.69	-	_
AS	SSXX-P4B4-XXX	1.88	1.69	1.56	1.81	1.69	2.00	2.00
AS	SHXX-P4B4-XXX	1.88	1.69	1.56	_	1.69	_	_
BB	SSXX-N4B4-XXX	.31	.44	.50	.62	.62	.75	.81
ВВ	SHXX-N4B4-XXX	.31	.44	.50	_	.62	-	_
BB	SSXX-P4B4-XXX	.31	.44	.50	.62	.62	.75	.81
ВВ	SHXX-P4B4-XXX	.31	.44	.50	_	.62	.75	.81
CC	SSXX-XXXX-XXX	.50	.50	.62	1.00	1.00	1.19	-
CC	SHXX-XXXX-XXX	.75	.75	.75	-	1.25	-	-
DD	All Types	.04	.07	.07	.07	.07	.09	.12
EP	All Types	.42	.66	.62	.91	.81	.98	1.00
FA	All Types	.50	.50	.50	.50	.75	.88	.88
FF	SSXX-X4B4-XXX	2.25	2.77	3.16	4.14	3.88	4.91	5.11
GG	All Types	.375	.500	.625	.750	.750	1.03	1.375
НН	All Types	10-32	1/4-28	5/16-24	7/16-20	7/16-20	1/2-20	1/2-20
JA	SSXX-N4B4-XXX	7/16-20	5/8-18	5/8-18	3/4-16	3/4-16	1-14	1-1/4-12
JA	SHXX-N4B4-XXX	3/8-24	5/8-18	5/8-18	-	3/4-16	-	-
JJ	All Types	3/8-24	1/2-20	5/8-18	3/4-16	3/4-16	1-14	1-1/4-12
KK	Wrench Flat	None	None	.25	.38	.38	.44	.50
LL	All Types	10-32	1/8	1/8	1/8	1/8	1/4	1/4
MM	All Types	.56	.81	1.12	1.31	1.55	1.81	2.07
NN	Standard Rod	.187	.250	.312	.437	.437	.500	.625
NN	Hex Flats	.187	.250	.375	_	.437	-	_
PP	All Types	.25	.34	.34	.41	.50	.50	.57
QM	All Types	.37	.62	.87	.87	.82	1.25	1.25
QQ	All Types	.31	.38	.38	.50	.62	.62	.75
RR	All Types	.16	.25	.25	.25	.38	.38	.38
RT	All Types	.12	.16	.25	.18	.25	.25	.31

Performance Specifications

Series S (Spring Extend, Nose Mount)

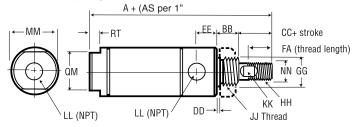
Model SRXX-N4B4-XXX - (Max. Stroke - 4 inches)					
Bore sizes:	1/2", 3/4", 1-1/16", 1-1/4", 1-1/2" 1-3/4",				
2"					
Hex Mounting Nut:	Standard				
Options:	Bumper, Viton				
Accessories:	Rod clevis, L-mount				
Wearstrip:	Not available on 1/2-inch bore.				
	Standard with 3 inches of stroke, or more				
	(optional on shorter strokes).				
Notes:	No rod bushing on 1/2-inch models - front head				

Series S (Block Front Mount - Spring Extend or Spring Return)

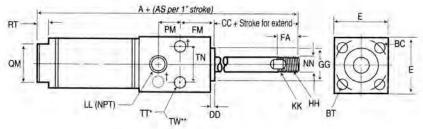
Model SSXX-B4E	Model SSXX-B4B4-XXX - (Max. Stroke-4 inches) (Spring Return)					
Bore sizes:	1/2″, 3/4″, 1-1/16″					
Options:	Wearstrip (except on 1/2-inch bore), bumper, Viton					
Accessories:	Rod clevis					
Notes:	No rod bushing on 1/2-inch models - front head is hard anodized. Head is hard anodized.					

Dimensional Data

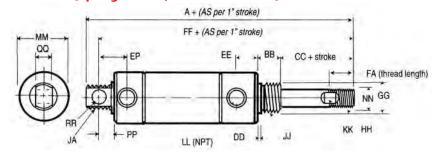
Series S (Spring Extend, Nose Mount)



Series S (Block Front Mount - Spring Extend or Spring Return)



Series S (Spring Extend, Universal Mount)



Series S (Spring Extend, Universal Mount)

Model SRXX-P4	B4-XXX - (Max. Stroke - 4 inches)
Bore sizes:	1/2", 3/4", 1-1/16", 1-1/4", 1-1/2" 1-3/4",
2"	
Options:	Bumper, Viton
Accessories:	Pivot bracket, rod clevis, L-mount, mounting nut.
Wearstrip:	Not available on 1/2-inch bore.
	Standard with 3 inches of stroke, or more
	(optional on shorter strokes).
Notes:	No rod bushing on 1/2-inch models - front head

Model SRXX-B4B4-XXX (Spring Extend, Illustrated)

(Max. Stroke -	4 inches)
Bore sizes:	1/2", 3/4", 1-1/16"
Options:	Bumper, Viton
Accessories:	Rod clevis
Wearstrip:	Not available on 1/2-inch bore.
	Standard with 3 inches of stroke, or more
	(optional on shorter strokes).
Notes:	No rod bushing on 1/2-inch models - front head
	is hard anodized.

Spring Forces

Bore Size	Spring Fo Normal	rce (Ibs.) Actuated
1/2″	1	2
3/4"	1.5	5
1-1/16"	4	8
1-1/4"	7	14
1-1/2"	6	12
1-3/4"	12	24
2″	15	30

^{*}TT - Two thru holes drilled and counterbored on port side for cap screw size listed.

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^{**}TW - Above thru holes tapped on opposite side for additional mounting option.

Mounting hole locations for 1/2-inch models.

Dimensional Data

Series S

Jenes B:				CYLINDER	BORE (IN	CHES)		
Dim Code	Cylinder Description	1/2	3/4	1-1/16	1-1/4	1-1/2	1-3/4	2
Single	Acting							
Α	SRXX-N4B4-XXX	2.42	2.78	3.28	4.25	4.00	5.03	5.11
Α	SRXX-P4B4-XXX	3.12	3.84	4.15	5.33	5.06	6.59	6.48
Α	SSXX-B4B4-XXX	2.42	3.34	4.28	-	5.00	-	-
A	SRXX-B4B4-XXX	2.42	3.34	4.28	-	5.18	-	-
AS	SRXX-N4B4-XXX	1.44	2.69	2.56	2.81	2.69	3.00	3.00
AS AS	SRXX-P4B4-XXX	1.44	2.69	2.56	2.81	2.69	3.00	3.00
AS	SSXX-B4B4-XXX SRXX-B4B4-XXX	1.88 2.88	1.69 2.69	1.56 2.56	_	1.69 2.69	_	-
BB	All Types	.41	.50	.50	.62	.62	.75	.81
BC	Bolt Circle Dia.	.75	1.00	1.25	.02	1.75	./)	.01
BT	Threaded Hole	8-32(2)	10-32(2)	10-32(2)	_	1/4-20	_	_
CC	SRXX-N4B4-XXX	.50	.50	.62	1.00	1.00	1.19	1.25
CC	SRXX-P4B4-XXX	.50	.50	.62	1.00	1.00	1.19	1.25
CC	SRXX-B4B4-XXX	.50	1.06	1.12	_	1.50	_	_
CC	SSXX-B4B4-XXX	.50	1.06	1.12	-	1.50	-	-
DD	Block Front Mount	.06	.09	.09	-	.12	-	-
DD	All Others	.04	.07	.07	.07	.07	.09	.12
E	Block Front Mount	.75	1.00	1.25	-	1.75	-	-
EE	All Types	.37	.48	.52	.69	.62	.72	.69
EP	SRXX-P4B4-XXX	.42	.66	.62	.91	.81	.98	1.00
FA FA	Block Front All Others	.50 .50	.75 .50	.75 .50	- .50	1.25 .75	.88	.88
FF	SRXX-P4B4-XXX	5.76	3.55	3.87	4.97	4.69	6.09	6.05
FM	Block Front Mount	.31	.48	.72	4.37	1.00	-	0.05
GG	Block Front Mount	.437	.625	.750	_	1.00	_	_
GG	SRXX-XXXX-XXX	.437	.625	.625	.750	.750	1.03	1.375
НН	All Types	10-32	1/4-28	5/16-24		7/16-20	1/2-20	1/2-20
JA	SRXX-P4B4-XXX	7/16-20	5/8-18	5/8-18	3/4-16	3/4-16	1-14	1-1/4-12
JJ	All Types	7/16-20	5/8-18	5/8-18	3/4-16	3/4-16	1-14	1-1/4-12
KK	Wrench Flat	None	None	.25	.38	.38	.44	.50
LL	Block Front Mount	10-32	1/8	1/8	1/8	1/4	-	-
LL	All Others	10-32	1/8	1/8	1/8	1/8	1/4	1/4
MM	All Types	.62	.88 .250	1.12 .312	1.31 .437	1.55	1.81 .500	2.07 .625
NN PM	All Types Block Front Mount	.187 .44	.51	.512	.437	.437 .66	.300	.023
PP	SRXX-P4B4-XXX	.25	.34	.34	.41	.50	.50	_ .57
QM	All Types	.37	.62	.87	.87	.82	1.25	1.25
QQ	SRXX-P4B4-XXX	.31	.38	.38	.50	.62	.62	.75
RR	SRXX-P4B4-XXX	.16	.25	.25	.25	.38	.38	.38
RT	All Types	.12	.16	.25	.18	.25	.25	.31
TN	Block Front Mount	.44	.62	.81	-	1.12	-	_
TT	Block Front Mount	8-32	10-32	10-32	-	1/4-20	-	-
TW	Block Front Mount	-	1/4-20	1/4-20	_	5/16-18	-	-

Performance Specifications

Series S (Nose Mount)

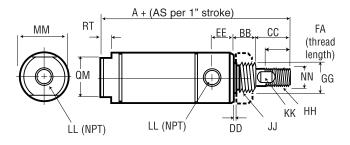
Model SDXX-N4	1B4-XXX - (Max. Stroke - 12 inches)
Bore sizes:	1/2", 3/4", 1-1/16", 1-1/4", 1-1/2" 1-3/4", 2", 2-1/2"
Hex Mounting Nut:	Standard (Except on 2 and 2-1/2″-inch models).
Options:	Bumper, Viton, Internal Magnet
Accessories:	Rod clevis, L-mount
Wearstrip:	Not available on 1/2-inch bore. Standard with 5 inches of stroke, or more (optional on shorter strokes).
Notes:	No rod bushing on 1/2-inch models - front head is hard anodized.

Series S (Universal Mount)

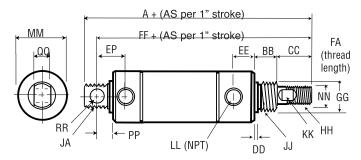
Model SDXX-P4	Model SDXX-P4B4-XXX - (Max. Stroke - 12 inches)					
Bore sizes:	1/2", 3/4", 1-1/16", 1-1/4", 1-1/2" 1-3/4", 2", 2-1/2"					
Options:	Bumper, Viton, Internal Magnet					
Accessories:	Pivot bracket, rod clevis, L-mount, mounting nut.					
Wearstrip:	Not available on 1/2-inch bore. Standard with 5 inches of stroke, or more (optional on shorter strokes).					
Notes:	No rod bushing on 1/2-inch models - front head is hard anodized.					

Dimensional Data

Series S (Nose Mount)



Series S (Universal Mount)



Dim	Cylinder	CYLINDER BORE (INCHES)							
Code	Description	1/2	3/4	1-1/16	1-1/4	1-1/2	1-3/4	2	2-1/2
Double	Acting								
Α	SDXX-N4B4-XXX	2.62	3.47	3.75	4.75	4.44	5.57	5.56	5.56
Α	SDXX-P4B4-XXX	3.31	4.54	4.62	5.83	5.50	7.13	6.93	6.93
AS	All Types	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
BB	All Types	.41	.50	.50	.62	.62	.75	.81	.81
CC	All Types	.50	.50	.62	1.00	1.00	1.19	1.25	1.25
DD	All Types	.04	.07	.07	.07	.07	.09	.12	.12
EE	All Types	.37	.48	.52	.69	.62	.72	.69	.69
EP	SDXX-P4B4-XXX	.42	.66	.62	.91	.81	.98	1.0	1.0
FA	All Types	.50	.50	.50	.75	.75	.88	.88	.88
FF	SDXX-P4B4-XXX	6.12	4.25	4.34	5.47	5.12	6.63	6.50	6.50
GG	All Types	.437	.625	.625	.750	.750	1.030	1.50	1.50
HH	All Types	10-32	1/4-28	5/16-24	7/16-20	7/16-20	1/2-20	1/2-20	1/2-20
JJ	All Types	7/16-20	5/8-18	5/8-18	3/4-16	3/4-16	1-14	1-1/4-12	1-3/8-12
KK	All Types	None	None	.25	.38	.38	.44	.50	.50
LL	All Types	10-32	1/8	1/8	1/8	1/8	1/4	1/4	1/4
MM	All Types	.62	.88	1.12	1.31	1.55	1.81	2.07	2.62
NN	All Types	.187	.250	.312	.437	.437	.500	.625	.625
PP	SDXX-P4B4-XXX	.25	.34	.34	.41	.50	.50	.57	.57
QM	SDXX-N4B4-XXX	.37	.62	.87	.87	.87	1.25	1.25	1.75
QQ	SDXX-P4B4-XXX	.31	.38	.38	.50	.62	.62	.75	.75
RR	SDXX-P4B4-XXX	.16	.25	.25	.25	.38	.38	.38	.38
RT	SDXX-N4B4-XXX	.12	.16	.25	.18	.25	.25	.31	.31

Performance Specifications

Series S (Double Rod End, Double End Mount)

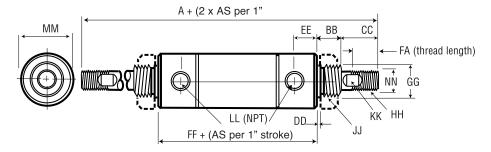
Model SDXX-D4B4-XXX - (Max. Stroke - 12 inches)				
Bore sizes:	1/2", 3/4", 1-1/16", 1-1/4", 1-1/2" 1-3/4", 2", 2-1/2"			
Hex Mounting Nut:	Standard (Except on 2 and 2-1/2″-inch models) and bumpers.			
Options:	Viton, wearstrip.			
Accessories:	L-mount, rod clevis, mounting nut (2, 2-1/2-inch models)			
Notes:	No rod bushing on 1/2-inch models - heads are hard anodized.			

Series S (Block Front Mount)

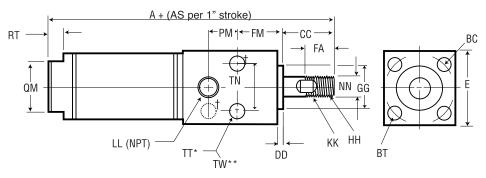
Model SDXX-B4	Model SDXX-B4B4-XXX - (Max. Stroke - 12 inches)				
Bore sizes:	1/2", 3/4", 1-1/16"				
Options:	Wearstrip, Bumpers, Viton, Internal Magnet				
Accessories:	Rod clevis				
Wearstrip:	Not available on 1/2-inch bore. Standard with 5 inches of stroke, or more (optional on shorter strokes).				
Notes:	No rod bushing on 1/2-inch models - front head is hard anodized.inch Wearstrip not available on 1/2-inch bore. Wearstrip is standard with 5 inches of stroke, or more (optional on shorter strokes).				

Dimensional Data

Series S (Double Rod End, Double End Mount)



Series S (Block Front Mount)



^{*} TT - Two thru holes drilled and counterbored on port side for cap screw size listed.

 $^{^{\}star\star}$ $\,$ TW - $\,$ Above thru holes tapped on opposite side for additional mounting option.

[†] Mounting hole locations for 1/2-inch models.

Dimensional Data

Series S

Series :		dor CYLINDER BORE (INCHES)							
Dim Code	Cylinder Description	1/2	3/4	1-1/16	1-1/4	1-1/2	1-3/4	2	2-1/2
Double	-	-,-	-, -	,	, -	,-	, .		,_
Α	SDXX-D4B4-XXX	3.88	5.03	5.32	6.83	6.63	8.57	8.31	8.31
Α	Block Front Mount	2.62	4.03	4.75	_	5.44	-	_	_
AS	Block Front Mount	1.00	1.00	1.00	-	1.00	-	-	-
AS	SDXX-D4B4-XXX	.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00
BB	SDXX-D4B4-XXX	.41	.50	.50	.62	.62	.75	.81	.81
ВС	Bolt Circle Dia.	.75	1.00	1.25	_	1.75	-	_	-
BT	Threaded Hole	8-32	10-32	10-32	-	1/4-20	-	-	-
CC	Block Front Mount	.50	1.06	1.12	-	1.50	-	-	-
CC	SDXX-D4B4-XXX	.50	.50	.62	1.00	1.00	1.19	1.25	1.25
DD	Block Front Mount	.06	.09	.09	-	.12	-	_	-
DD	SDXX-D4B4-XXX	.04	.07	.07	.07	.07	.09	.12	.12
Е	Block Front Mount	.75	1.00	1.25	-	1.75	-	_	-
EE	SDXX-D4B4-XXX	.37	.48	.52	.69	.62	.72	.69	.69
FA	Block Front Mount	.50	.75	.75	_	1.25	_	_	_
FA	SDXX-D4B4-XXX	.50	.50	.50	.75	.75	.88	.88	.88
FF	SDXX-D4B4-XXX	2.07	3.03	3.07	3.58	3.39	4.69	4.19	4.19
FM	Block Front Mount	.31	.48	.72	-	1.00	-	-	-
GG	Block Front Mount	.437	.625	.750	_	1.00	-	_	_
GG	SDXX-D4B4-XXX	.437	.625	.625	.750	.750	1.030	1.50	1.50
НН	All Types	10-32	1/4-28	5/16-24	7/16-20		1/2-20	1/2-20	1/2-20
IJ	SDXX-D4B4-XXX	7/16-20	5/8-18	5/8-18	3/4-16	3/4-16	1-14		1-3/8-12
KK	All Types	None	None	.25	.38	.38	.44	.50	.50
LL	All Types	10-32	1/8	1/8	1/8	1/8	1/4	1/4	1/4
MM	SDXX-D4B4-XXX	.62	.88	1.12	1.31	1.55	1.81	2.07	2.62
NN	All Types	.187	.250	.312	.437	.437	.500	.625	.625
PM	Block Front Mount	.44	.51	.54	-	.66	-	-	-
QM	Block Front Mount	.37	.62	.87	-	.87		-	-
RT	Block Front Mount	.12	.16	.25	-	.25	-	-	-
TN	Block Front Mount	.44	.62	.81	-	1.12	-	-	-
TT	Block Front Mount	8-32	10-32	10-32	-	1/4-20	-	-	-
TW	Block Front Mount	-	1/4-20	1/4-20	-	5/16-18	-	_	_

Features

Series S (Hall Effect Switches)

Hall Effect Sensors are typically used in conjunction with computers, programmable controllers or other solid state devices to sense and process cylinder rod proximity. The solid state circuitry in this sinking switch (NPN) provides clean, fast output without "bounce." The 300 mW power capability restricts its use to low power loads. One switch kit fits all Silverair cylinders for reduced and simplified inventory. 3/8 inch effective area per switch. For two switches, a minimum of 1-inch stroke is recommended.



Performance Specifications

Series S (Hall Effect Switches)

Input Voltage:	5 to 24 VDC
Input Current:	25 mA maximum
Output Voltage Drop:	0.4 VDC maximum
Output Current:	330 mA maximum
Power Dissipation:	300 mW maximum
Temperature Range:	-20° to 185°F (-29° to 85°C)

Ordering

Series S (Hall Effect Switches)

Model No.	Description
118123-100	w/LED, 5-24 VDC, 24 inch leads
	(includes 118124 Mounting Kit)
118123-200	w/LED, 5-24 VDC, 144 inch leads
	(includes 118124 Mounting Kit)

Series S (Reed Switches)

Epoxy encapsulated reed switches are ideal for harsh environments. One switch kit fits all Silverair cylinders for reduced and simplified inventory. 50 watt reed is common in all sensors. Model 117045-300 lights up during reed engagement in low voltage applications. Model 117045-500 lights up over wide voltage range. Model 117045-100 is a basic sensor with no LED.

Performance Specifications

Series S (Reed Switches)

Contacts:	Normally open
Contact Rating:	50 W maximum
Switching Current:	1 A maximum
Initial Contact Resistance:	1 Ohm
Min. Break Down Voltage:	225 VDC, 275 VAC
Temperature Range:	-40° to 200°F (-40° to 93°C)

OrderingSeries 5 (Reed Switches)

One 118124 Mounting Kit is included with each Reed Switch

Model No.	Description
117045-100	No LED, 120 VAC or 200 VDC max., 24 inch leads
117045-200	No LED, 120 VAC or 200 VDC max., 144 inch leads
117045-500	w/LED, 120 VAC or 200 VDC max., 24 inch leads
117045-600	w/LED, 120 VAC or 200 VDC max., 144 inch leads

Technical Information:

- 1. Do not exceed specification, permanent damage to the sensor may occur.
- 2. For reed switch type sensors, polarity must be observed for the proper functioning of LED. Connect the brown wire in series with load positive (+) and the blue wire to negative (-) or power source space. If the polarity is reversed, reed switch remains functional but LED will remain in "OFF" state.
- 3. For solid-state type sensors, polarity must also be observed. Connect brown wire to the positive (+) and the blue to the negative (-) of DC power source. The black wire must connect to the load ONLY. If the black wire is accidentally connected to the power source, permanent damage to the sensor may occur.
- 4. An external protection circuit may be required if the reed switch is used with inductive load, such as relay or solenoid. For DC inductive load, attach an external diode parallel to the load and use R -C circuit parallel with AC inductive load.
- 5. Keep sensors away from stray magnetic field to prevent malfunctions.
- 6. When using reed switch with capacitive load or if the lead wire length exceeds 10-meter, and inductor must be installed in series with the sensor to prevent damage (Sticking effect).

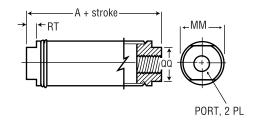
Silverair[™] Volume Chambers

Features

Series S (Stainless Steel Volume Chambers)

Volume chambers are used wherever there is the need to accumulate or store a volume of air or vacuum, such as a time delay in a circuit.

- Stainless steel body and aluminum endcaps offer excellent corrosion resistance in adverse environments.
- Available in lengths up to 24 inches, at 1/8-inch increments, providing a capability to meet very specific pneumatic accumulator applications.



Performance Specifications

Operating Pressures:	0 - 200 PSIG (14 bar)
Temperatures Ranges:	-40° to 160°F, ambient (-40° to 71°C)
Operation:	Compressed air or with vacuum

Ordering

Cylinder Bore (Inches) Reference 3/4 1-1/16 1-1/2 2						
А	1.91	2.18	2.26	2.81		
MM	.81	1.11	1.55	2.07		
QQ	.62	.88	.88	1.25		
RT	.16	.25	.25	.32		
PORT	.125	.125	.125	.25		

Volume (ci)	Cylindo 3/4	er Bore (In 1-1/16	ches) 1-1/2	2
Add per 1.0 inch of length	.44	.89	1.77	3.14
Basic Volume (add to total)	.41	.92	1.80	4.44

Position		1		2	
Example:	11811	X	-	XX	X

Position 1 Bore Size	Positon 2 Chamber Length (1" Increments, 1" through 4")				
5 - 3/4" 6 - 1-1/16" 7 - 1-1/2" 8 - 2"	Whole Inches 00 = 0" 01 = 1" 02 = 2" 03 = 3" 04 = 4" 05 = 5" 06 = 6" 10 = 10" etc.	Fraction Inches 0 = None 1 = 1/8" 2 = 1/4" 3 = 3/8" 4 = 1/2" 5 = 5/8" 6 = 3/4" 7 = 7/8"	• Under 1" stroke, use 00 and fraction designation. Example: 1/2" stroke = 004		

NOTE: Bold selections denote most popular models.