The **C Series** is a robust compact cylinder line that is designed to fit tight space requirements. The low profile design and variety of mounting options makes this cylinder line extremely popular. Furthermore, its unique style and diversity makes the C Series a one of a kind compact cylinder line.

Tube

The **tube** is hard coat anodized aluminum. The hard coating is an electro-chemical process, which produces a very dense surface of aluminum oxide. This surface has extreme hardness (60 RC.), excellent wear and corrosion resistance, and a low coefficient of friction. Additionally, profile tubing is standard on 3/4" through 2-1/2" bore sizes (3" and 4" bores are the tie rod configuration). The profile tubing has a custom dovetail groove on all sides for trouble-free switch and accessory mounting.

End Caps

The **end caps** are accurately machined from solid aluminum bar stock. They are anodized for corrosion resistance. Additionally, a recess on the piston-mating surface (at both ends) enables the air to work on a larger piston area for effortless breakaway.

Rod Bushing

The C Series includes a sintered bronze **rod bushing** for maximum load bearing support.

Rod Seal

The quad ring **rod seal** ensures proper sealing even at low pressures.

Piston Rod

High strength steel (100,000 psi minimum yield) **piston rod** has a ground, polished, and chrome plated surface. This surface provides maximum life for both the rod bushing and the seals.

Piston Seal

The quad ring **piston seal** ensures proper sealing even at low pressures.

Piston

The solid aluminum alloy **piston** is strong and durable.

Tie Rods

The **tie rods** (3" and 4" only) are 100,000 psi minimum yield steel for maximum holding power. The threads are roll formed for superior strength and engagement.



Tube End Seal

The **tube end seals** are compression type and reusable.

Ports

Our enhanced **port** design enables the cylinder to work more efficiently. Through the use of precise machining depths and tool shape, we are able to smooth the flow path into and out of the cylinder.

Mounting Holes

The dual purpose **mounting holes** allow use of through bolts or threaded-in attachments.

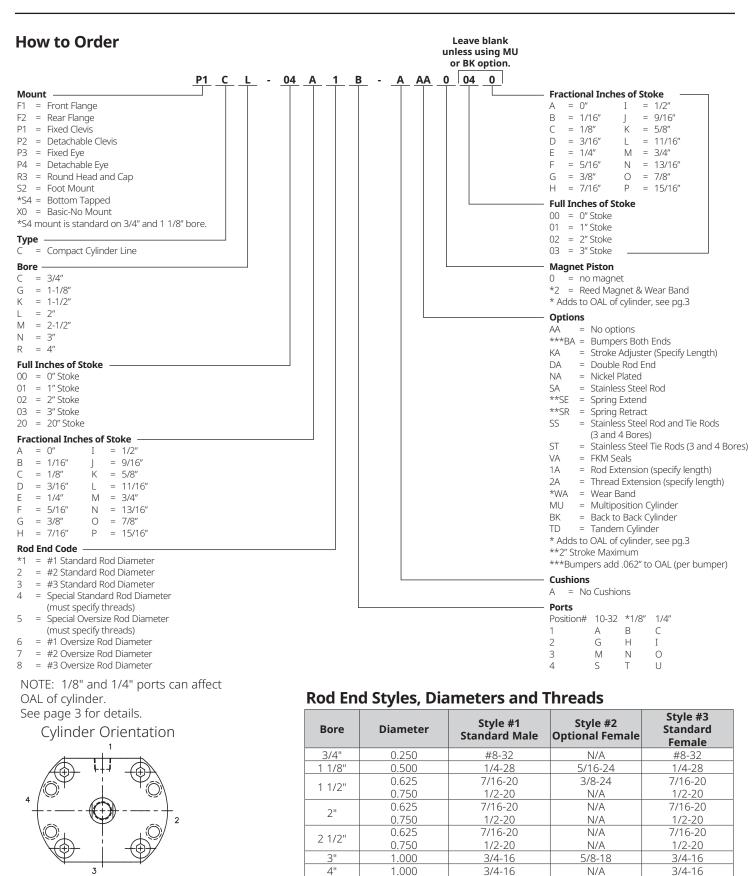
Standard Specifications

- Variety of mounts
- Bore sizes from 3/4" through 4"
- Piston rod diameters from 1/4" to 1"
- Maximum pressure rating is 250 psi air
- Standard temperature -10°F to 165°F (-23°C to 74°C)
- All aluminum construction
- NPTF ports
- Flexible port locating



SERIES C

AVENTICS[™] Compact Cylinder Line



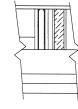
Ports Normally in Position 1



*NOTE: Style #1 Male rods are studded female rods

How to Order continued

Figure 1. Wear Band Option



Side load and misalignment are major factors that can cause premature failure of the rod bushing and piston, the two load bearing points on a cylinder.

The Wear Band option separates the load bearing points by locating the wear band at the rear of the piston assembly, to give maximum column strength even at full extension (Fig. 1).

The wear band is a stable, lubricating strip placed far back on the piston. Its width and placement serve to locate piston load at the optimum point.

Order as "WA" Option or by putting a "2" in the magnetic piston code

C Series Length Adders

Standard Adders

Cylinders	Bore	WA Option	"2" Magnet Code	"BA" Option Bumpers (Both Ends)	1/8" NPT Ports
C-series	0.75"	*1.05"	*1.05"	0.125"	0.500"
C-series	1.125"	*0.925"	*0.925"	0.125"	0.500"
C-series	1.5"	*0.937"	*0.937"	0.125"	N/A
C-series	2"	*0.937"	*0.937"	0.125"	N/A
C-series	2.5"	*1"	*1"	0.125"	N/A
C-series	3"	*0.750"	*0.750"	0.125"	N/A
C-series	4"	*0.875"	*0.875"	0.125"	N/A

Special Notes:

* For cylinders that require a "2" (reed) magnet, a special piston will be used. This piston will incorporate the wearband, so when the "2" style magnet is ordered the cylinder will automatically have a wearband. For cylinders that require a "WA" option (wearband) this same special piston is used, but the magnet will not be placed into the groove unless ordered, therefore the adders will be equal for the "2" magnet and "WA" option. When ordering the combination of "2" (reed) magnet and "WA" (wearband) option you will only use the adder once.

Notes on Ordering:

Ports - Full flow 10-32 ports are standard on 3/4" and 1 1/8" bore Compact Series. If you want 1/8" NPTF ports, overall lengths will increase by 7/16" on double rods and 1/2" on single rods due to a thicker head and cap. Full flow 1/8" NPTF ports are standard and 1/4" NPTF ports are not available on 1 1/2" and 2" bore sizes. Full flow 1/4" NPTF ports are standard on 2 1/2" through 4" bore sizes. Smaller ports are available.

Specials - Various special configurations are available: consult factory. Metric rod threads and "G" ports are available by special order.

Multiple Options - For multiple options, please consult the factory for "combination" option codes.

Minimum Length detail for Switches

Bore	Min. Stroke "Sense One End"	Min. Stroke "Sense Both Ends"
3/4″	1/2″	1/2″
1 1/8″	1/2″	1/2″
1 1/2″	7/16″	7/16″
2″	7/16″	7/16″
2 1/2"	1/4″	3/8″
3″	1/4″	3/8″
4"	1/8″	3/8″

Combo Adders

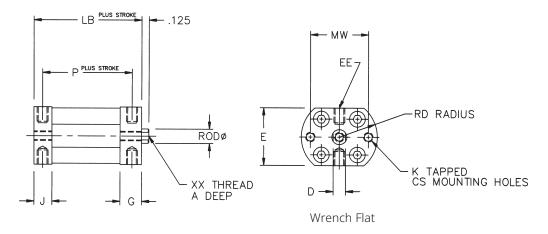
WA(wearband)+ 2(Reed Magnet)
*1.05"
*0.925"
*0.937"
*0.937"
*1"
*0.750"
*0.875"



Basic Compact Series Cylinders

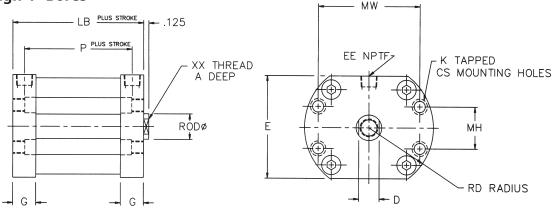
Dimensions: Inches

3/4" and 1 1/8" Bores



Mount Code S4 (Standard)

1 1/2" Through 4" Bores



Wrench Flat

Mount Code XO

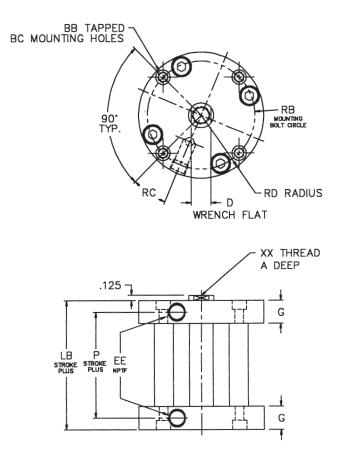
Bore	Rod	Α	CS	D	E	EE+	G	J	К	*LB	МН	MW	Р	RD	ХХ
3/4"	0.250	0.375	#5	0.212	1.250	#10-32	0.406	0.343	#8-32	1.000	N/A	1.375	0.638	0.844	#8-32
1-1/8"	0.500	0.375	#6	0.375	1.750	#10-32	0.406	0.343	#10-32	1.000	N/A	1.793	0.638	1.125	1/4-28
1-1/2"	0.625	0.500	#10	0.500	2.000	1/8	0.625	N/A	1/4-28	1.438	0.770	2.114	0.875	1.313	7/16-20
1-1/2"	0.750	0.750	#10	0.625	2.000	1/8	0.625	N/A	1/4-28	1.438	0.770	2.114	0.875	1.313	1/2-20
2"	0.625	0.500	1/4	0.500	2.500	1/8	0.625	N/A	5/16-24	1.438	1.029	2.483	0.875	1.575	7/16-20
2"	0.750	0.750	1/4	0.625	2.500	1/8	0.625	N/A	5/16-24	1.438	1.029	2.483	0.875	1.575	1/2-20
2-1/2"	0.625	0.500	1/4	0.500	3.000	1/4	0.750	N/A	5/16-24	1.750	1.363	2.922	1.063	1.875	7/16-20
2-1/2"	0.750	0.750	1/4	0.625	3.000	1/4	0.750	N/A	5/16-24	1.750	1.363	2.922	1.063	1.875	1/2-20
3"	1.000	0.875	1/4	0.875	3.500	1/4	0.750	N/A	5/16-24	1.875	1.585	3.399	1.188	2.125	3/4-16
4"	1.000	0.875	5/16	0.875	4.500	1/4	0.750	N/A	3/8-24	1.875	2.060	4.418	1.188	2.750	3/4-16

* Refer to pg. 3 for length adders



Round Head and Cap Mount

Dimensions: Inches



Mount Code R3

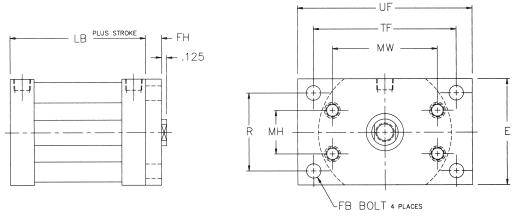
Bore	Rod	А	BB	BC	D	EE+	G	LB	Р	RB	RC	RD	XX
3/4"	0.250	0.375	#10-32	#6	0.212	#10-32	0.406	1.013	0.638	1.219	35°	0.750	#8-32
1-1/8"	0.500	0.375	#10-32	#6	0.375	#10-32	0.406	1.013	0.638	1.688	20°	1.000	1/4-28
1-1/2"	0.625	0.500	1/4-28	#10	0.500	1/8	0.625	1.438	0.875	2.188	21°	1.313	7/16-20
1-1/2"	0.750	0.750	1/4-28	#10	0.625	1/8	0.625	1.438	0.875	2.188	21°	1.313	1/2-20
2"	0.625	0.500	1/4-28	#10	0.500	1/8	0.625	1.438	0.875	2.688	22°	1.563	7/16-20
2"	0.750	0.750	1/4-28	#10	0.625	1/8	0.625	1.438	0.875	2.688	22°	1.563	1/2-20
2-1/2"	0.625	0.500	5/16-24	1/4	0.500	1/4	0.750	1.750	1.063	3.250	25°	1.875	7/16-20
2-1/2"	0.750	0.750	5/16-24	1/4	0.625	1/4	0.750	1.750	1.063	3.250	25°	1.875	1/2-20
3"	1.000	0.875	5/16-24	1/4	0.875	1/4	0.750	1.875	1.188	3.781	21°	2.125	3/4-16
4"	1.000	0.875	3/8-24	5/16	0.875	1/4	0.750	1.875	1.188	4.938	21°	2.750	3/4-16



Flange Mounts

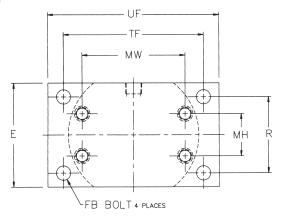
Dimensions: Inches

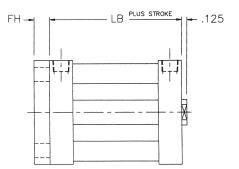
Front Flange



Mount Code F1

Rear Flange





Mount Code F2

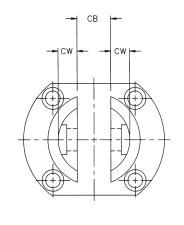
Bore	E	FB	FH	LB	МН	MW	R	TF	UF
3/4"	0.250	#8	0.250	0.950	N/A	1.375	0.813	1.813	2.250
1-1/8"	0.750	#10	0.250	0.950	N/A	1.793	1.282	2.250	2.750
1-1/2"	2.000	5/16	0.375	1.438	0.770	2.114	1.430	2.750	3.375
2"	2.500	3/8	0.375	1.438	1.029	2.483	1.840	3.375	4.125
2-1/2"	3.000	3/8	0.375	1.750	1.363	2.922	2.190	3.875	4.625
3"	3.500	5/16	0.438	1.875	1.585	3.399	2.625	4.375	5.000
4"	4.500	7/16	0.625	1.875	2.060	4.418	3.320	5.438	6.250

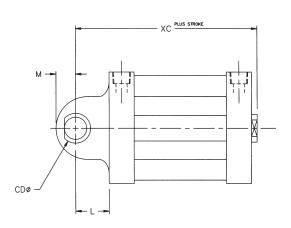


Clevis Mounts

Dimensions: Inches

Fixed Clevis

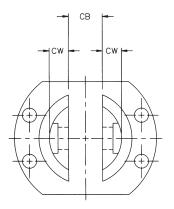


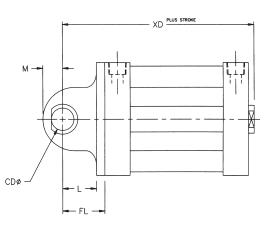


Mount Code P1

NOTE: Includes clevis pin.

Detachable Clevis





Mount Code P2

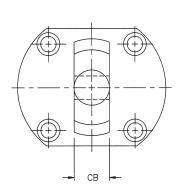
NOTE: Includes clevis pin.

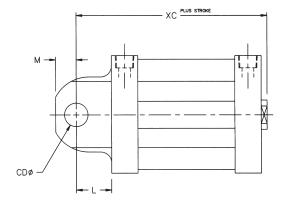
Bore	СВ	CD	CW	FL	L	М	XC	XD
3/4"	0.375	0.188	0.302	0.688	0.500	0.474	N/A	1.763
1-1/8"	0.375	0.188	0.302	0.688	0.500	0.474	N/A	1.763
1-1/2"	0.750	0.375	0.424	0.813	0.625	0.438	2.188	2.375
2"	0.750	0.375	0.424	0.938	0.750	0.438	2.313	2.500
2-1/2"	0.750	0.375	0.424	1.000	0.750	0.500	2.625	2.875
3"	1.000	0.625	0.553	1.313	1.063	0.625	3.063	3.313
4"	1.000	0.625	0.553	1.688	1.438	0.625	3.438	3.688



Eye Mounts Dimensions: Inches

Fixed Eye

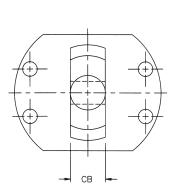


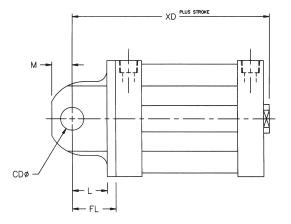


Mount Code P3

NOTE: Includes clevis pin.

Detachable Eye





Mount Code P4

NOTE: Includes clevis pin.

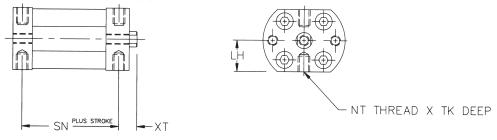
Bore	СВ	CD	FL	L	М	хс	XD
3/4"	0.375	0.188	0.688	0.500	0.490	N/A	1.763
1-1/8"	0.375	0.188	0.688	0.500	0.490	N/A	1.763
1-1/2"	0.750	0.375	0.813	0.625	0.438	2.188	2.375
2"	0.750	0.375	0.938	0.750	0.438	2.313	2.500
2-1/2"	0.750	0.375	1.000	0.750	0.500	2.625	2.875
3"	1.000	0.625	1.313	1.063	0.625	3.063	3.313
4"	1.000	0.625	1.688	1.438	0.625	3.438	3.688



Bottom Mounts

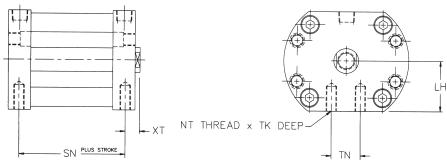
Dimensions: Inches

3/4" And 1 1/8" Bores - Bottom Tapped (Standard)



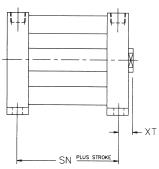
Mount Code S4 (Standard)

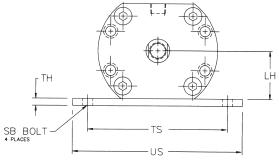
1 1/2" Through 4" Bores - Bottom Tapped



Mount Code S4







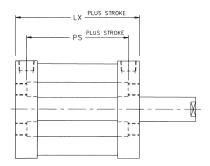
Mount Code S2

Bore	LH	NT	SB	SN	тн	ТК	TN	TS	US	ХТ
3/4"	0.625	#10-32	N//A	0.638	N/A	0.250	N/A	N/A	N/A	0.293
1-1/8"	0.875	#10-32	N//A	0.638	N/A	0.250	N/A	N/A	N/A	0.293
1-1/2"	1.000	1/4-28	1/4	0.813	0.250	0.375	0.625	2.875	3.375	0.438
2"	1.250	1/4-28	1/4	0.813	0.250	0.375	0.750	3.375	3.875	0.438
2-1/2"	1.500	5/16-24	5/16	1.000	0.250	0.500	1.125	4.000	4.375	0.500
3"	1.750	5/16-24	5/16	1.125	0.375	0.500	1.625	4.500	4.875	0.500
4"	2.250	3/8-24	3/8	1.125	0.375	0.750	1.625	5.750	6.250	0.500



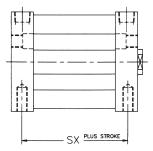
Single Acting Cylinders Dimensions: Inches

Spring Extend

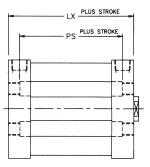


Order as "SE" option

Bottom Tapped with SE or SR option

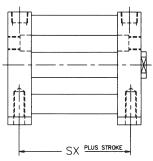


Spring Return



Order as "SR" option

Base Bar Mount with SE or SR option



Mount Code S2

Dava		S	strokes up to 1	"		Strokes over 1" up to 2"						
Bore	LX	PS	SX	XV	ХҮ	LX	PS	SX	XV	ХҮ		
3/4"	1.950	1.638	1.638	N/A	2.763	2.950	2.638	2.638	N/A	3.763		
1-1/8"	1.950	1.638	1.638	N/A	2.763	2.950	2.638	2.638	N/A	3.763		
1-1/2"	2.688	2.125	2.063	3.438	3.625	3.938	3.375	3.313	4.688	4.875		
2"	2.813	2.250	2.188	3.688	3.875	4.188	3.625	3.563	5.063	5.250		
2-1/2"	3.125	2.438	2.375	4.000	4.250	4.500	3.813	3.750	5.375	5.625		
3"	3.375	2.688	2.625	4.563	4.813	4.875	4.188	4.125	6.063	6.313		
4"	3.375	2.688	2.625	4.938	5.188	4.875	4.188	4.125	6.438	6.688		

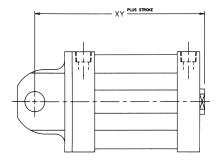


Mount Code S4



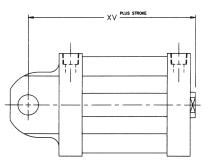
Single Acting Cylinders Cylinders Dimensions: Inches

Detachable Eye with SE or SR option



Mount Code P4

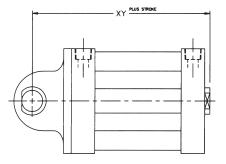
Fixed Eye with SE or SR option



Mount Code P3

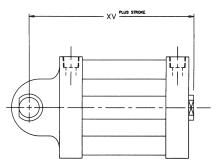
(Consult factory for strokes greater than 2")

Detachable Clevis with SE or SR option



Mount Code P2

Fixed Clevis with SE or SR option



Mount Code P1

Dawa		S	strokes up to 1	"		Strokes over 1" up to 2"						
Bore	LX	PS	SX	XV	ХҮ	LX	PS	SX	XV	ХҮ		
3/4"	1.950	1.638	1.638	N/A	2.763	2.950	2.638	2.638	N/A	3.763		
1-1/8"	1.950	1.638	1.638	N/A	2.763	2.950	2.638	2.638	N/A	3.763		
1-1/2"	2.688	2.125	2.063	3.438	3.625	3.938	3.375	3.313	4.688	4.875		
2"	2.813	2.250	2.188	3.688	3.875	4.188	3.625	3.563	5.063	5.250		
2-1/2"	3.125	2.438	2.375	4.000	4.250	4.500	3.813	3.750	5.375	5.625		
3"	3.375	2.688	2.625	4.563	4.813	4.875	4.188	4.125	6.063	6.313		
4"	3.375	2.688	2.625	4.938	5.188	4.875	4.188	4.125	6.438	6.688		

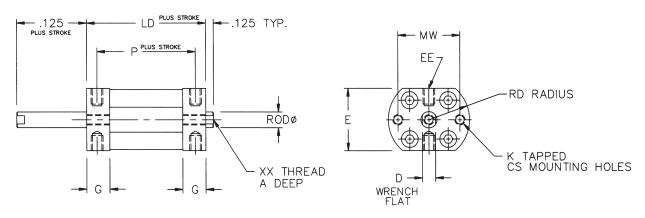


Double Rod Cylinders

Dimensions: Inches

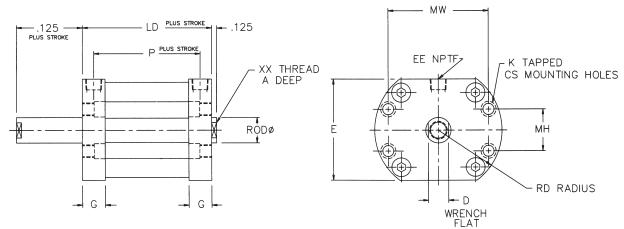
3/4" and 1 1/8" Bores

This configuration has a piston rod which extends out both ends of the cylinder. It is also called a through rod cylinder.



Order as "DA" Option

1 1/2" Through 4" Bores

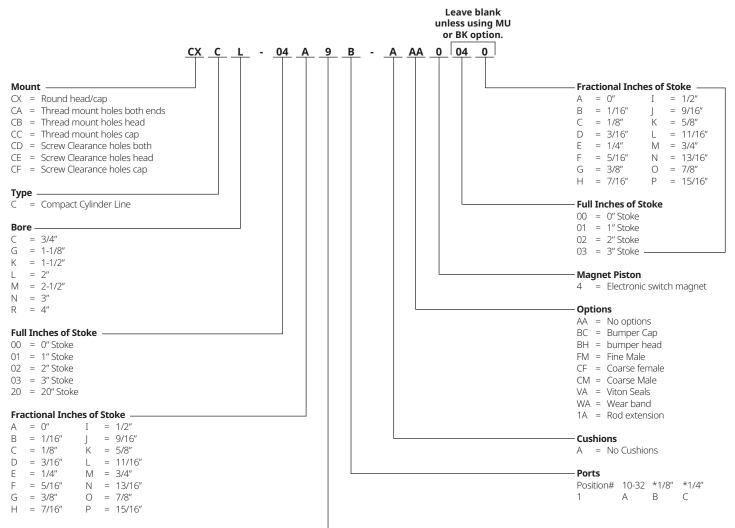


Order as "DA" Option

Bore	Rod	А	CS	D	E	EE+	G	К	LD	MH	MW	Р	RD	XX
3/4"	0.250	0.375	#5	0.212	1.250	#10-32	0.406	#8-32	1.000	N/A	1.375	0.678	0.844	#8-32
1-1/8"	0.500	0.375	#6	0.375	1.750	#10-32	0.406	#10-32	1.000	N/A	1.793	0.678	1.125	1/4-28
1-1/2"	0.625	0.500	#10	0.500	2.000	1/8	0.625	1/4-28	1.438	0.770	2.114	0.875	1.313	7/16-20
1-1/2"	0.750	0.750	#10	0.625	2.000	1/8	0.625	1/4-28	1.438	0.770	2.114	0.875	1.313	1/2-20
2"	0.625	0.500	1/4	0.500	2.500	1/8	0.625	5/16-24	1.438	1.029	2.483	0.875	1.575	7/16-20
2"	0.750	0.750	1/4	0.625	2.500	1/8	0.625	5/16-24	1.438	1.029	2.483	0.875	1.575	1/2-20
2-1/2"	0.625	0.500	1/4	0.500	3.000	1/4	0.750	5/16-24	1.750	1.363	2.922	1.063	1.875	7/16-20
2-1/2"	0.750	0.750	1/4	0.625	3.000	1/4	0.750	5/16-24	1.750	1.363	2.922	1.063	1.875	1/2-20
3"	1.000	0.875	1/4	0.875	3.500	1/4	0.750	5/16-24	1.875	1.585	3.399	1.188	2.125	3/4-16
4"	1.000	0.875	5/16	0.875	4.500	1/4	0.750	3/8-24	1.875	2.060	4.418	1.188	2.750	3/4-16



How to Order C Series Pancake



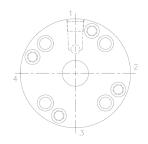
Rod End code

Determined by bore size

9 = Fine female * Standard rod end

* Standard rod end

Cylinder Orientation



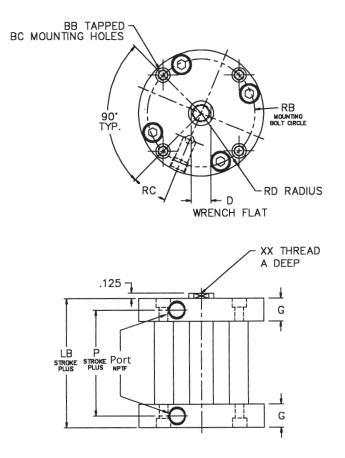
Ports Normally in Position 1

Rod End Styles, Diameters and Threads

Bore	Diameter	Standard	FM	CF	СМ
3/4"	0.312	10-32	10-32	10-24	10-24
1 1/8"	0.5	5/16-24	5/16-24	5/16-18	5/16-18
1 1/2"	0.625	3/8-24	3/8-24	3/8-16	3/8-16
2"	0.750	1/2-20	1/2-20	1/2-13	1/2-13
2 1/2"	0.750	1/2-20	1/2-20	1/2-13	1/2-13
3"	1.000	5/8-18	5/8-18	5/8-11	5/8-11
4"	1.000	3/4-16	3/4-16	3/4-10	3/4-10



C Series – Pancake Style



C series Pancake

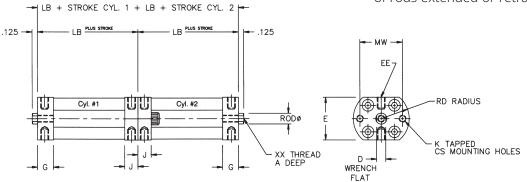
Bore	Rod	Port	BB	BB C'Bore	BC	D	G	LB	Р	RB	RC Degree	RD
3/4	0.312	10-32	#10-32	0.24 x 0.15 dp	#6	0.312	0.406	1.013	0.638	1.219	35	0.75
1-1/8	0.5	1/8 NPT	#10-32	0.24 x 0.15 dp	#6	0.5	0.406	1.013	0.638	1.688	20	1
1-1/2	0.625	1/8 NPT	1/4-28	0.34 x 0.22 dp	#10	0.625	0.625	1.438	0.875	2.188	21	1.313
2	0.75	1/8 NPT	1/4-28	0.34 x 0.22 dp	#10	0.75	0.75	1.438	0.875	2.688	22	1.563
2-1/2	0.75	1/4 NPT	5/16-24	0.40 x 0.27 dp	1/4	0.75	0.75	1.438	1.063	3.25	25	1.875
3	1	1/4 NPT	5/16-24	0.40 x 0.27 dp	1/4	1	0.75	1.875	1.188	3.871	21	2.125
4	1	1/4 NPT	3/8-24	0.49 x 0.33 dp	5/16	1	0.75	1.875	1.188	4.938	21	2.75

Back to Back Cylinders

Dimensions: Inches

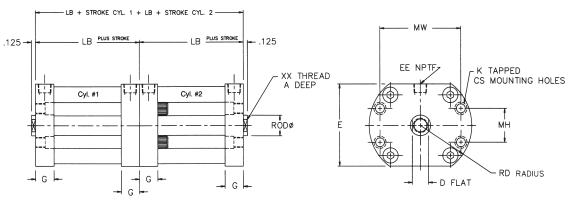
3/4" and 1 1/8" Bores

This configuration is two cylinders mounted back to back. Each cylinder can be operated independently. The cylinders can have the same stroke or different strokes. This configuration enables you to have four combinations of rods extended or retracted.





1 1/2" Through 4" Bores



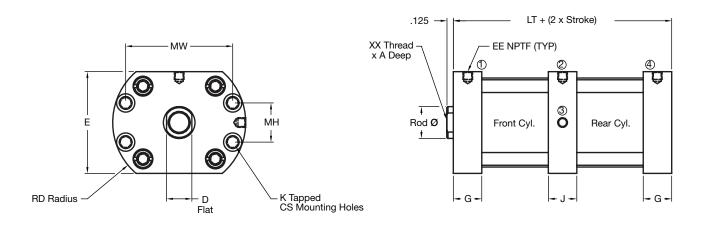


Bore	Rod	А	CS	D	E	EE	G	J	К	LB	МН	MW	RD	XX
1-1/8"	0.500	0.375	#6	0.375	1.750	#10-32	0.406	0.343	#10-32	0.950	N/A	1.793	1.125	1/4-28
1-1/2"	0.625	0.500	#10	0.500	2.000	1/8	0.625	N/A	1/4-28	1.438	0.770	2.114	1.313	7/16-20
1-1/2"	0.750	0.750	#10	0.625	2.000	1/8	0.625	N/A	1/4-28	1.438	0.770	2.114	1.313	1/2-20
2"	0.625	0.500	1/4	0.500	2.500	1/8	0.625	N/A	5/16-24	1.438	1.029	2.483	1.575	7/16-20
2"	0.750	0.750	1/4	0.625	2.500	1/8	0.625	N/A	5/16-24	1.438	1.029	2.483	1.575	1/2-20
2-1/2"	0.625	0.500	1/4	0.500	3.000	1/4	0.750	N/A	5/16-24	1.750	1.363	2.922	1.875	7/16-20
2-1/2"	0.750	0.750	1/4	0.625	3.000	1/4	0.750	N/A	5/16-24	1.750	1.363	2.922	1.875	1/2-20
3"	1.000	0.875	1/4	0.875	3.500	1/4	0.750	N/A	5/16-24	1.875	1.585	3.399	2.125	3/4-16
4"	1.000	0.875	5/16	0.875	4.500	1/4	0.750	N/A	3/8-24	1.875	2.060	4.418	2.750	3/4-16



Tandem Cylinders Dimensions: Inches

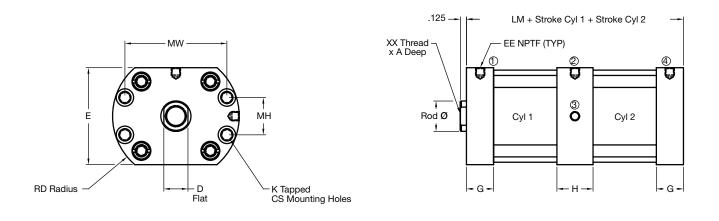
This configuration provides nearly twice the force of an equivalent basic double acting cylinder. Two pistons are attached to a common piston rod. Ports 2 and 4 are pressurized to nearly double the extend force. Ports 1 and 3 are pressurized to double the retract force.



Bore	Rod	А	CS	D	E	EE	G	J	К	LT	МН	MW	RD	XX
1-1/2"	0.625	0.500	#10	0.500	2.000	1/8	0.625	0.688	1/4-28	2.313	0.770	2.114	1.313	7/16-20
1-1/2"	0.750	0.750	#10	0.625	2.000	1/8	0.625	0.688	1/4-28	2.313	0.770	2.114	1.313	1/2-20
2"	0.625	0.500	1/4	0.500	2.500	1/8	0.625	0.688	5/16-24	2.313	1.029	2.483	1.575	7/16-20
2"	0.750	0.750	1/4	0.625	2.500	1/8	0.625	0.688	5/16-24	2.313	1.029	2.483	1.575	1/2-20
2-1/2"	0.625	0.500	1/4	0.500	3.000	1/4	0.750	0.813	5/16-24	2.313	1.363	2.922	1.875	7/16-20
2-1/2"	0.750	0.750	1/4	0.625	3.000	1/4	0.750	0.813	5/16-24	2.313	1.363	2.922	1.875	1/2-20
3"	1.000	0.875	1/4	0.875	3.500	1/4	0.750	0.813	5/16-24	3.063	1.585	3.399	2.125	3/4-16
4"	1.000	0.875	5/16	0.875	4.500	1/4	0.750	0.813	3/8-24	3.063	2.060	4.418	2.750	3/4-16

Multi-Position Cylinders Dimensions: Inches

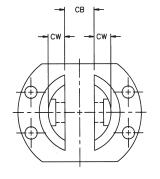
Multi-position cylinders look similar to tandem cylinders. However, in this cylinder the rear and front piston rods are separate. The stroke from full retract to the intermediate extend point is set by the stroke of cylinder #2. The total stroke for full retract to full extend is set by the stroke of cylinder #1. Full extend or retract is achieved by pressurizing ports 1 and 2 respectively with ports 3 and 4 vented. An intermediate position is achieved by pressurizing port 4 with the other ports vented or by pressurizing both ports 1 and 4. With 1 and 4 pressurized, the rod is more positively held in the intermediate position.

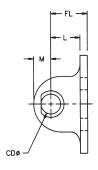


Bore	Rod	А	CS	D	E	EE	G	н	К	LM	МН	MW	RD	XX
1-1/2"	0.625	0.500	#10	0.500	2.000	1/8	0.625	0.688	1/4-28	2.500	0.770	2.114	1.313	7/16-20
1-1/2"	0.750	0.750	#10	0.625	2.000	1/8	0.625	0.688	1/4-28	2.500	0.770	2.114	1.313	1/2-20
2"	0.625	0.500	1/4	0.500	2.500	1/8	0.625	0.688	5/16-24	2.500	1.029	2.483	1.575	7/16-20
2"	0.750	0.750	1/4	0.625	2.500	1/8	0.625	0.688	5/16-24	2.500	1.029	2.483	1.575	1/2-20
2-1/2"	0.625	0.500	1/4	0.500	3.000	1/4	0.750	0.813	5/16-24	3.000	1.363	2.922	1.875	7/16-20
2-1/2"	0.750	0.750	1/4	0.625	3.000	1/4	0.750	0.813	5/16-24	3.000	1.363	2.922	1.875	1/2-20
3"	1.000	0.875	1/4	0.875	3.500	1/4	0.750	0.813	5/16-24	3.375	1.585	3.399	2.125	3/4-16
4"	1.000	0.875	5/16	0.875	4.500	1/4	0.750	0.813	3/8-24	3.375	2.060	4.418	2.750	3/4-16

Accessories Dimensions: Inches

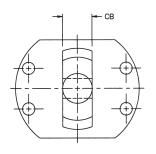
Clevis Bracket

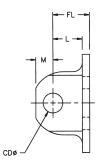




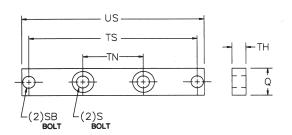
Note: Only two mounting holes on the 3/4" and 1-1/8" bore sizes.

Eye Bracket

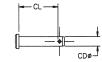




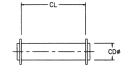
Base Bar



Clevis Pins - 3/4" and 1 1/8" Bores *



Clevis Pins - 1 1/2" Through 4" Bores *



* Included with P1, P2, P3 and P4 mounts

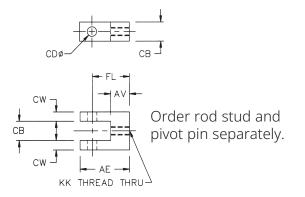
Bore	Clevis Kit	Eye Kit	Pivot PIN	СВ	CD	CL	CW	FL	L	M Clevis	M Eye	Q	s	SB	тн	TN	TS	US
3/4"	C600-C05	C600-C06	N131-1014	0.375	0.188	1.100	0.302	0.688	0.500	0.474	0.490	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1-1/8"	C600-G05	C600-G06	N131-1014	0.375	0.188	1.100	0.302	0.688	0.500	0.474	0.490	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1-1/2"	C600-K05	C600-K06	N131-1000	0.750	0.375	1.500	0.424	0.813	0.625	0.438	0.438	0.625	1/4	1/4	0.250	0.625	2.875	3.375
2"	C600-L05	C600-L06	N131-1000	0.750	0.375	1.500	0.424	0.938	0.750	0.438	0.438	0.625	1/4	1/4	0.250	0.750	3.375	3.875
2-1/2"	C600-M05	C600-M06	N131-1000	0.750	0.375	1.500	0.424	1.000	0.750	0.500	0.500	0.750	5/16	5/16	0.250	1.125	4.000	4.375
3"	C600-N05	C600-N06	N131-1001	1.000	0.625	2.125	0.553	1.313	1.063	0.625	0.625	0.750	5/16	5/16	0.375	1.625	4.500	4.875
4"	C600-R05	C600-R06	N131-1001	1.000	0.625	2.125	0.553	1.688	1.438	0.625	0.625	0.750	3/8	3/8	0.375	1.625	5.750	6.250

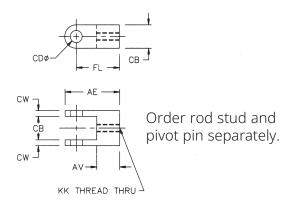


Accessories Continued

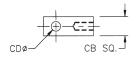
Dimensions: Inches

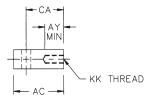
Rod Clevis - 3/4" and 1 1/8" Bores





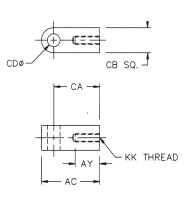
Rod Eye - 3/4" and 1 1/8" Bores





Rod Eye - 1 1/2" Through 4" Bores

Rod Clevis - 1 1/2" Through 4" Bores



Bore	Eye	Clevis	AC	AE	AV	AY	AZ	CA	СВ	CD	CL	CW	FL	КК
3/4"	C500-706	C500-606	0.938	0.938	0.375	0.375	0.750	0.750	0.375	0.188	0.750	0.188	0.750	#8-32
1-1/8"	C500-708	C500-608	0.938	0.938	0.375	0.375	0.750	0.750	0.375	0.188	0.750	0.188	0.750	1/4-28
1-1/2"	C500-701	C500-601	1.093	1.375	0.600	0.375	0.875	0.718	0.750	0.375	1.125	0.188	1.000	7/16-20
1-1/2"	C500-702	C500-602	1.093	1.375	0.600	0.375	1.125	0.718	0.750	0.375	1.125	0.188	1.000	1/2-20
2"	C500-701	C500-601	1.093	1.375	0.600	0.375	0.875	0.718	0.750	0.375	1.125	0.188	1.000	7/16-20
2"	C500-702	C500-602	1.093	1.375	0.600	0.375	1.125	0.718	0.750	0.375	1.125	0.188	1.000	1/2-20
2-1/2"	C500-701	C500-601	1.093	1.375	0.600	0.375	0.875	0.718	0.750	0.375	1.125	0.188	1.000	7/16-20
2-1/2"	C500-702	C500-602	1.093	1.375	0.600	0.375	1.125	0.718	0.750	0.375	1.125	0.188	1.000	1/2-20
3"	C500-703	C500-603	1.500	2.188	0.750	0.500	1.375	1.000	1.000	0.625	1.500	0.250	1.688	3/4-16
4"	C500-703	C500-603	1.500	2.188	0.750	0.500	1.375	1.000	1.000	0.625	1.500	0.250	1.688	3/4-16

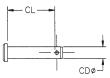


Accessories Continued

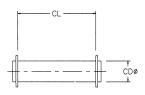
Dimensions: Inches

Rod Stud

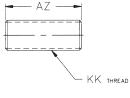
Clevis Pins - 3/4" and 1 1/8" Bores



Clevis Pins - 1 1/2" Through 4" Bores



Bore	Rod Stud	Pivot Pin	AC	AE	AV	AY	AZ	CA	СВ	CD	CL	CW	FL	КК
3/4"	C500-506	C500-406	0.938	0.938	0.375	0.375	0.750	0.750	0.375	0.188	0.750	0.188	0.750	#8-32
1-1/8"	C500-508	C500-406	0.938	0.938	0.375	0.375	0.750	0.750	0.375	0.188	0.750	0.188	0.750	1/4-28
1-1/2"	C500-502	C500-403	1.093	1.375	0.600	0.375	0.875	0.718	0.750	0.375	1.125	0.188	1.000	7/16-20
1-1/2"	C500-503	C500-403	1.093	1.375	0.600	0.375	1.125	0.718	0.750	0.375	1.125	0.188	1.000	1/2-20
2"	C500-502	C500-403	1.093	1.375	0.600	0.375	0.875	0.718	0.750	0.375	1.125	0.188	1.000	7/16-20
2"	C500-503	C500-403	1.093	1.375	0.600	0.375	1.125	0.718	0.750	0.375	1.125	0.188	1.000	1/2-20
2-1/2"	C500-502	C500-403	1.093	1.375	0.600	0.375	0.875	0.718	0.750	0.375	1.125	0.188	1.000	7/16-20
2-1/2"	C500-503	C500-403	1.093	1.375	0.600	0.375	1.125	0.718	0.750	0.375	1.125	0.188	1.000	1/2-20
3"	C500-505	C500-404	1.500	2.188	0.750	0.500	1.375	1.000	1.000	0.625	1.500	0.250	1.688	3/4-16
4"	C500-505	C500-404	1.500	2.188	0.750	0.500	1.375	1.000	1.000	0.625	1.500	0.250	1.688	3/4-16



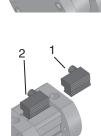
C series World application Detail

Round Tube and Tie Rod Detail

- 1. World Switch
- 2. Tie Rod Bracket
- 3. Cylinder Tie Rod

Profile Tube Detail

- 1. World Switch
- 2. Dove Tail extrusion



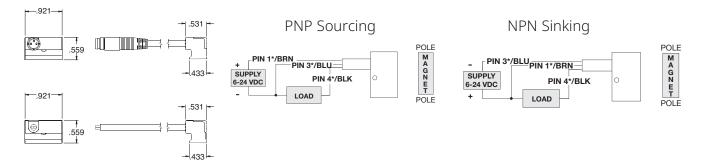
C series World Switch Bracket

Cylinders	Bore	Part Number
C series Profile	3/4"-2 1/2"	Direct Fit
C series Tie Rod	3" Bore	SB6-L01
C series Tie Rod	4" Bore	SB6-P01

C Series World Switch Hall Effect Part Numbers

P/N	Switch Style	Electrical Design	Output	Operating Voltage	Current Rating	Switching Power	Voltage Drop	NEMA IP Rating	Temperature Rating
SH6-031	Flying Lead	PNP	Normally Open	6 -24 VDC	0.3 Amps Max.	7.2 Watts Max.	0.5 Volts	NEMA 6	-25° to +75° C
SH6-032	Flying Lead	NPN	Normally Open	6 -24 VDC	0.3 Amps Max.	7.2 Watts Max.	0.5 Volts	NEMA 6	-25° to +75° C
SH6-021	M8 Connec- tor	PNP	Normally Open	6 -24 VDC	0.3 Amps Max.	7.2 Watts Max.	0.5 Volts	NEMA 6	-25° to +75° C
SH6-022	M8 Connec- tor	NPN	Normally Open	6 -24 VDC	0.3 Amps Max.	7.2 Watts Max.	0.5 Volts	NEMA 6	-25° to +75° C

Hall Effect Switch

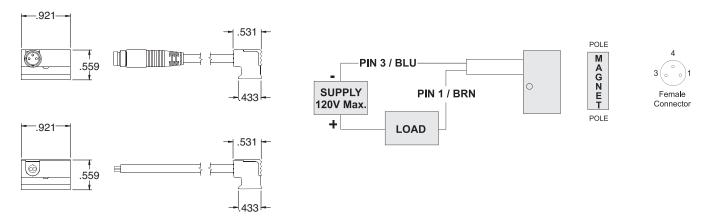




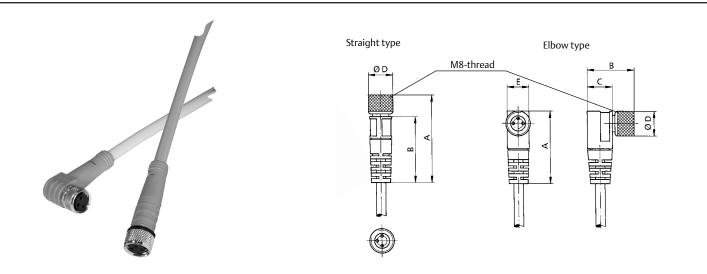
C Series World Switch Reed Switch Part Numbers

P/N	Switch Style	Electrical Design	Output	Operating Voltage	Current Rating	Switching Power	Voltage Drop	NEMA IP Rating	Temperature Rating
SR6-002	Flying Lead	AC/DC REED	Normally Open	5-120 VAC/DC	0.025 Amps Max. 0.001 Amps Min.	3 Watts Max.	3.5 Volts	NEMA 6	-25° to +75° C
SR6-004	Flying Lead	AC/DC REED	Normally Open	5-120 VAC/DC	0.5 Amps Max. 0.005 Amps Min.	10 Watts Max.	3.0 Volts	NEMA 6	-25° to +75° C
SR6-022	M8 Connector	AC/DC REED	Normally Open	5-50 VAC 5-60 VDC	0.025 Amps Max. 0.001 Amps Min.	12 Watts Max.	0.5 Volts	NEMA 6	-25° to +75° C
SR6-024	M8 Connector	AC/DC REED	Normally Open	5-50 VAC 5-60 VDC	0.5 Amps Max. 0.005 Amps Min.	10 Watts Max.	3.0 Volts	NEMA 6	-25° to +75° C

Reed Switch - Normally Open Type SR6



Cords M8-thread for Switches and Sensors with Connector **Dimensions:** Inches



Туре		А	В	С	D	E	Weight (approx. kg)	Order Code
Straight with 5m-cable	(3x0.25 mm ²)	32.3	24.4		9.0	_	0.143	PXCST
Elbow with 5m-cable	(3x0.25 mm ²)	26.3	17.1	9.2	9.0	8.0	0.145	PXC90



Compact Cylinders

C Series (Profile Tube) 2 in magnet code

Bore	Bracket P/N	
3/4"	P4994406190N001	
1 1/8"	P4994406190N001	
1 1/2"	P4994406190N001	
2"	P4994406190N001	
2 1/2"	P4994406190N001	



Sensor Description	Standard Cord Set	Quick Disconnect	
Reed Switch	P494A0021300A00	P494A0021600A00	
Hall PNP	P494A0022300A00	P494A0022600A00	
Hall NPN	P494A0022400A00	P494A0022700A00	

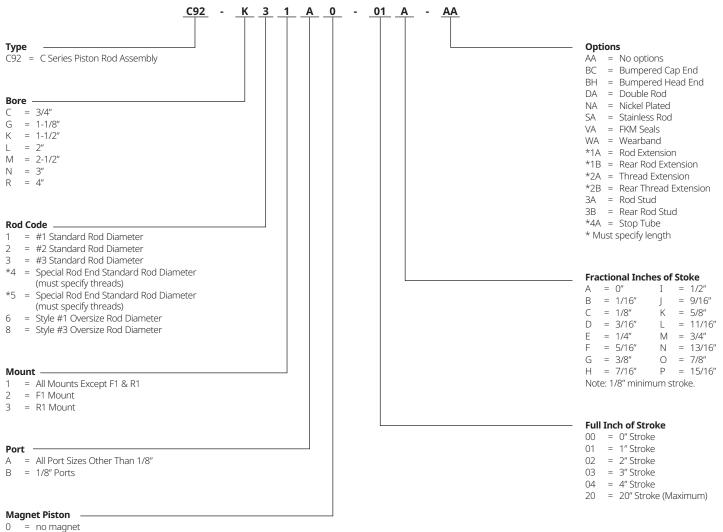
C Series (Tie Rod) 2 in magnet code

Bore	Bracket P/N	
3"	P4995051670N001	
4"	P499440617MN001	



Sensor Description	Standard Cord Set	Quick Disconnect
Reed Switch	P494A0021300A00	P494A0021600A00
Hall PNP	P494A0022300A00	P494A0022600A00
Hall NPN	P494A0022400A00	P494A0022700A00

How to Order - C Series Piston Rod Assembly



2 = Reed Magnet and Wear Band

Note: Options listed are ones that apply to a piston rod assembly only. Model number is set up to use option code supplied with original cylinder or with any above.

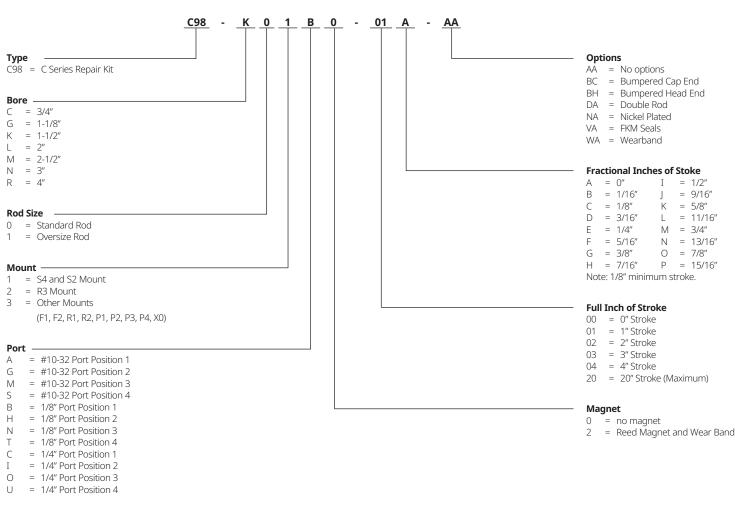
Rod End Styles, Diameters and Threads

Туре	Diameter	Style #1 Optional Male	Style #2 Optional Female	Style #3 Standard Female
3/4"	0.250	#8-32	N/A	#8-32
1 1/8"	0.500	1/4-28	5/16-24	1/4-28
1 1/2"	0.625	7/16-20	3/8-24	7/16-20
1 1/2	0.750	1/2-20	N/A	1/2-20
2"	0.625	7/16-20	N/A	7/16-20
2	0.750	1/2-20	N/A	1/2-20
2 1/2"	0.625	7/16-20	N/A	7/16-20
2 1/2	0.750	1/2-20	N/A	1/2-20
3"	1.000	3/4-16	5/8-18	3/4-16
4"	1.000	3/4-16	N/A	3/4-16

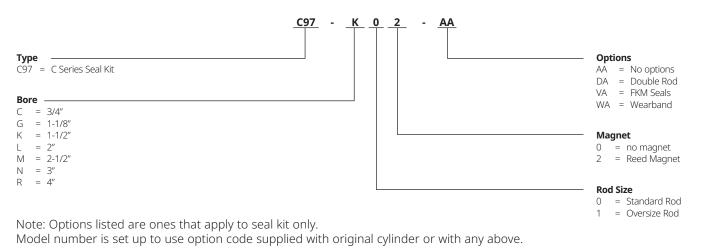


AVENTICS[™] Compact Cylinder Line

How to Order - C Series Repair Kit



Note: Options listed are ones that apply to repair kit only. Model number is set up to use option code supplied with original cylinder or with any above.



Note:

Tie Rod and Sleeve Nuts are Standard on 3" and 4" bore sizes.