

TIE-ROD MODEL CODE IDENTIFICATION MATRIX

MODEL CODE SYSTEM B 350 160 ABAAA07B

MODELS:

B=B SERIES-3000 PSI
A=ASAE VERSION OF B SERIES
(8" & 16" Strokes only,
8" stroke not available
in 4.5" & 5" bore size.)

BORE SIZE:

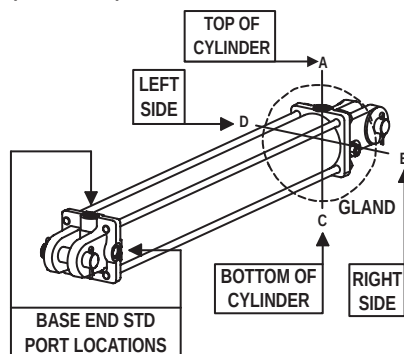
200=2.00" Bore 400=4.00" Bore
250=2.50" Bore 450=4.50" Bore
300=3.00" Bore 500=5.00" Bore
350=3.50" Bore

STROKE: (Inches)

First two digits are in inches
Third digit is 0-7 representing
1/8's of an inch for custom strokes.
Consult Prince for over 48"

GLAND PORT LOCATIONS: (See Pictorial Below)

A=(Top Port, STD)
B=(R. Side Port)
C=(Bottom Port)
D=(L. Side Port)



PORT LOCATION DETERMINED FROM VIEWING
CYLINDER FROM BASE END.

(See Table Below) PORT STYLE & SIZE:

CODE	PORT TYPE & SIZE	CYLINDER BORE SIZE (Inch)						
		2.00	2.50	3.00	3.50	4.00	4.50	5.00
A	#6 SAE ORB (9/16-18)	O	O	O	O	O	O	O
B	#8 SAE ORB (3/4-16)	S	S	S	S	S	O	O
C	#10 SAE ORB (7/8-14)						S	S
D	NPTF 3/8	O	O	O	O	O	O	O
E	NPTF 1/2	O	O	O	O	O	O	O
F	NPTF 3/4							O

Table Identifiers: (For Tables Above)

S-STANDARD O-OPTIONAL BLANK-NOT AVAILABLE

CARTON & DECAL CODE

A=No carton-Std decals, Installed
B=Carton-Std decals, Installed (STD)
C=No carton-Std decals, Loose
D=Carton-Std decals, Loose
E=No carton-Std decals, customer I.D. decal, Installed
F=Carton-Std decals, customer I.D. decal, Installed
G=No carton-Std decals, customer I.D. decal, Loose
H=Carton-Std decals, customer I.D. decal, Loose
J=No carton-Customer I.D. decal, Installed
K=Carton-Customer I.D. decal, Installed
L=No carton-Customer I.D. decal, Loose
M=Carton-Customer I.D. decal, Loose
N=No carton-Warning decals, Installed
P=Carton-Warning decals, Installed
Q=No carton-Warning decal, Loose
R=Carton-Warning decals, Loose
S=No carton-Warning, Customer I.D. decal, Installed
T=Carton-Warning, Customer I.D. decal Installed
U=No carton-Warning, Customer I.D. decal, Loose
V=Carton-Warning, Customer I.D. decal, Loose

PAINT:

00=No Paint
01=Gloss Red
03=Highway Yellow
04=Canary Yellow
05=Green
06=Blue
07=Gloss Black (STD)
14=Gloss White
20=Red Primer
30=Black Primer
35=Naval Gray
50=Yellow Primer
53=Gray Primer
55=Silver Gray
58=Gray

CLEVIS PIN INSTALLATION & RETAINER OPTIONS:

A=Cotter Pins & Clevis Pin(s) Shipped Loose (STD)
B=Cotter Pins & Clevis Pin(s) Installed
C=No Retainers, Clevis Pin(s) Shipped Loose if Selected

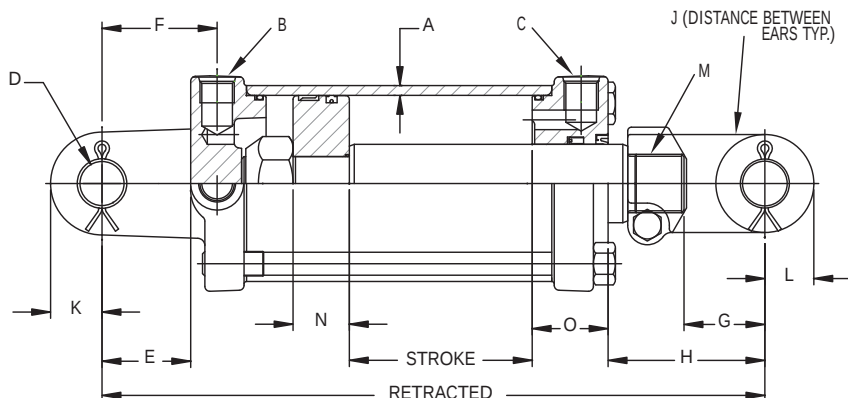
AVAILABLE CLEVIS PIN OPTIONS	CYLINDER BORE SIZE (Inch)						
	2.00	2.50	3.00	3.50	4.00	4.50	5.00
1.00"Ø PIN	S	S	S	S			
1.00"Ø HARDENED PIN	O	O	O	O	S		
1.25"Ø HARDENED PIN					O	S	S

CLEVIS PIN OPTIONS & AVAILABILITY: (See Table Above)

A=2-1.00"Ø Pins
B=Reserved
C=2-1.00"Ø Hardened Pins
D=2-1.25"Ø Hardened Pins
E=1-1.00"Ø Pin
F=Reserved
G=1-1.00"Ø Hardened Pin
H=1-1.25"Ø Hardened Pin
J= No Pins

END FITTING OPTIONS: (See Table Above)

A=Ø1.00" Pin Holes, Both Ends
B=Ø1.00" Base End Pin Hole, No Rod Clevis
C=Ø1.00" Pin Holes, Both Ends, Stroke Control Assy *
D=Ø1.25" Pin Holes, Both Ends
E=Ø1.25" Base End Pin Hole, No Rod Clevis
*(ASAE Version 2.0-3.5" Bore with 8" stroke only)



FEATURES:

- Honed tubing
- Heavy duty, high strength tie-rods
- Induction hardened piston rods plated with RoyalPlate Plus® (piston rods on 2" bore not hardened)
- Ductile iron piston, butt, gland & clevis
- Urethane u-cup & metal encased wiper 2 1/2" bore & larger models
- Crown seal on piston
- Pins & cotter pins (Hardened pins on 4", 4 1/2" & 5" models)
- Standard color is gloss black
- Stroke control may be installed on 8" strokes (2" - 3.5" bore, A models only)
- Side ports available on request
- Nylon bearing ring on 4", 4 1/2" & 5" bore models
- 3000 PSI continuous operating pressure

2 INCH BORE CYLINDERS

New Standard Model No.	Old Standard Model No. 2500 PSI / 3000 PSI	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 2 Inch Bore Cylinders
B200040ABAAA07B	none /SAE-32004	4"	17	9425 lbs	14 1/4	3 1/2	Note: 1 1/8" rod diameter Outside Sq. Dim. Butt - 2.875, Gland 2.875 A 3/16" cylinder tube wall thickness B, C SAE 3/4-16 extend & retract ports D 1.015" clevis pin hole size E, F 1 13/16" base clevis throat depth with 2 3/8" from pin center to port center G 1 13/16" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 1/8" base clevis ear radius L 1 1/8" rod clevis ear radius M 1 1/8" - 12 UNF-3 piston rod clevis thread size N 7/8" piston width O 2 3/16" gland width
B200060ABAAA07B	none /SAE-32006	6"	19	9425 lbs	16 1/4	3 1/2	
A200080ABAAA07B	none /SAE-32008	8"	21	9425 lbs	20 1/4	5 1/2	
B200100ABAAA07B	none /SAE-32010	10"	22	9425 lbs	20 1/4	3 1/2	
B200120ABAAA07B	SAE-9012 /SAE-32012	12"	23	9425 lbs	22 1/4	3 1/2	
B200140ABAAA07B	SAE-9014 /SAE-32014	14"	25	9425 lbs	24 1/4	3 1/2	
A200160ABAAA07B	SAE-9016 /SAE-32016	16"	28	7630 lbs	31 1/2	8 3/4	
B200180ABAAA07B	SAE-9018 /SAE-32018	18"	28	9200 lbs	28 1/4	3 1/2	
B200200ABAAA07B	SAE-9020 /SAE-32020	20"	30	7760 lbs	30 1/4	3 1/2	
B200240ABAAA07B	SAE-9024 /SAE-32024	24"	33	5730 lbs	34 1/4	3 1/2	
B200300ABAAA07B	SAE-9030 /SAE-32030	30"	37	3910 lbs	40 1/4	3 1/2	

2.5 INCH BORE CYLINDERS

New Standard Model No.	Old Standard Model No. 2500 PSI / 3000 PSI	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 2.5 Inch Bore Cylinders
B250060ABAAA07B	none /SAE-32506	6"	22	14730 lbs	16 1/4	3 9/16	Note: 1 3/4" rod diameter Outside Sq. Dim. Butt - 3.375, Gland 3.375 A 3/16" cylinder tube wall thickness B, C SAE 3/4-16 extend & retract ports D 1.015" clevis pin hole size E, F 1 7/8" base clevis throat depth with 2 13/16" from pin center to port center G 1 13/16" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 1/8" base clevis ear radius L 1 1/8" rod clevis ear radius M 1 1/8" - 12 UNF-3 piston rod clevis thread size N 1" piston width O 2 3/8" gland width
A250080ABAAA07B	SAE-9108 /SAE-32508	8"	25	14730 lbs	20 1/4	5 1/16	
B250100ABAAA07B	SAE-9110 /SAE-32510	10"	26	14730 lbs	20 1/4	3 9/16	
B250120ABAAA07B	SAE-9112 /SAE-32512	12"	28	14730 lbs	22 1/4	3 9/16	
B250140ABAAA07B	SAE-9114 /SAE-32514	14"	30	14730 lbs	24 1/4	3 9/16	
A250160ABAAA07B	SAE-9116 /SAE-32516	16"	34	11520 lbs	31 1/2	8 9/16	
B250180ABAAA07B	SAE-9118 /SAE-32518	18"	34	13880 lbs	28 1/4	3 9/16	
B250200ABAAA07B	SAE-9120 /SAE-32520	20"	36	11720 lbs	30 1/4	3 9/16	
B250240ABAAA07B	SAE-9124 /SAE-32524	24"	41	8670 lbs	34 1/4	3 9/16	
B250300ABAAA07B	SAE-9130 /SAE-32530	30"	47	5930 lbs	40 1/4	3 9/16	

3 INCH BORE CYLINDERS

New Standard Model No.	Old Standard Model No. 2500 PSI / 3000 PSI	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 3 Inch Bore Cylinders
B300060ABAAA07B	none /SAE-33006	6"	26	21210 lbs	16 1/4	3 3/4	Note: 1 3/4" rod diameter Outside Sq. Dim. Butt - 3.875, Gland 3.875 A 3/16" cylinder tube wall thickness B, C SAE 3/4-16 extend & retract ports D 1.015" clevis pin hole size E, F 1 7/8" base clevis throat depth with 2 7/16" from pin center to port center G 1 13/16" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 1/8" base clevis ear radius L 1 1/8" rod clevis ear radius M 1 1/8" - 12 UNF-3 piston rod clevis thread size N 1" piston width O 1 15/16" gland width
A300080ABAAA07B	SAE-9208 /SAE-33008	8"	29	21210 lbs	20 1/4	5 3/4	
B300100ABAAA07B	SAE-9210 /SAE-33010	10"	30	21210 lbs	20 1/4	3 3/4	
B300120ABAAA07B	SAE-9212 /SAE-33012	12"	33	21210 lbs	22 1/4	3 3/4	
B300140ABAAA07B	SAE-9214 /SAE-33014	14"	35	21210 lbs	24 1/4	3 3/4	
A300160ABAAA07B	SAE-9216 /SAE-33016	16"	40	16730 lbs	31 1/2	9	
B300180ABAAA07B	SAE-9218 /SAE-33018	18"	40	20120 lbs	28 1/4	3 3/4	
B300200ABAAA07B	SAE-9220 /SAE-33020	20"	42	17010 lbs	30 1/4	3 3/4	
B300240ABAAA07B	SAE-9224 /SAE-33024	24"	47	12620 lbs	34 1/4	3 3/4	
B300300ABAAA07B	SAE-9230 /SAE-33030	30"	54	8640 lbs	40 1/4	3 3/4	
B300360ABAAA07B	SAE-9236 /SAE-33036	36"	61	6290 lbs	46 1/4	3 3/4	
B300480ABAAA07B	SAE-9248 /SAE-33048	48"	75	3760 lbs	58 1/4	3 7/8	

3.5 INCH BORE CYLINDERS

New Standard Model No.	Old Standard Model No. 2500 PSI / 3000 PSI	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 3.5 Inch Bore Cylinders
A350080ABAAA07B	SAE-9308A /SAE-33508	8"	35	28860 lbs	20 ¼	5 ¾	Note: 1 ¾" rod diameter Outside Sq. Dim. Butt - 4.313, Gland 4.313 A 3/16" cylinder tube wall thickness B, C SAE ¾ -16 extend & retract ports D 1.015" clevis pin hole size E, F 1 7/8" base clevis throat depth with 2 7/16" from pin center to port center G 1 13/16" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 ¼" base clevis ear radius L 1 ¼" rod clevis ear radius M 1 5/16" - 12 UNF-3 piston rod clevis thread size N 1" piston width O 1 15/16" gland width
B350100ABAAA07B	SAE-9310A /SAE-33510	10"	37	28860 lbs	20 ¼	3 ¾	
B350120ABAAA07B	SAE-9312A /SAE-33512	12"	39	28860 lbs	22 ¼	3 ¾	
B350140ABAAA07B	SAE-9314A /SAE-33514	14"	42	28860 lbs	24 ¼	3 ¾	
A350160ABAAA07B	SAE-9316A /SAE-33516	16"	46	16900 lbs	31 ½	9	
B350180ABAAA07B	SAE-9318A /SAE-33518	18"	47	20400 lbs	28 ¼	3 ¾	
B350200ABAAA07B	SAE-9320A /SAE-33520	20"	49	17240 lbs	30 ¼	3 ¾	
B350240ABAAA07B	SAE-9324A /SAE-33524	24"	54	12780 lbs	34 ¼	3 ¾	
B350300ABAAA07B	SAE-9330A /SAE-33530	30"	62	8760 lbs	40 ¼	3 ¾	
B350360ABAAA07B	SAE-9336A /SAE-33536	36"	69	6370 lbs	46 ¼	3 ¾	
B350480ABAAA07B	SAE-9348A /SAE-33548	48"	85	3800 lbs	58 ¼	3 ¾	

4 INCH BORE CYLINDERS

New Standard Model No.	Old Standard Model No. 2500 PSI / 3000 PSI	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 4 Inch Bore Cylinders
A400080ABACA07B	SAE-9408 /SAE-34008	8"	48	37700 lbs	20 ¼	5 ¾	Note: 1 ¾" rod diameter Outside Sq. Dim. Butt - 5.063, Gland 5.063 A 3/16" cylinder tube wall thickness B, C SAE ¾ -16 extend & retract ports D 1.015" clevis pin hole size E, F 1 ¾" base clevis throat depth with 2 7/16" from pin center to port center G 1 7/8" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 ¼" base clevis ear radius L 1 ¼" rod clevis ear radius M 1 ½" - 12 UNF-3 piston rod clevis thread size N 1 ¼" piston width O 1 13/16" gland width
B400100ABACA07B	SAE-9410 /SAE-34010	10"	50	37700 lbs	20 ¼	3 ¾	
B400120ABACA07B	SAE-9412 /SAE-34012	12"	54	37700 lbs	22 ¼	3 ¾	
B400140ABACA07B	SAE-9414 /SAE-34014	14"	57	37700 lbs	24 ¼	3 ¾	
A400160ABACA07B	SAE-9416 /SAE-34016	16"	64	37700 lbs	31 ½	8 ½	
B400180ABACA07B	SAE-9418 /SAE-34018	18"	64	37700 lbs	28 ¼	3 ¾	
B400200ABACA07B	SAE-9420 /SAE-34020	20"	68	37700 lbs	30 ¼	3 ¾	
B400240ABACA07B	SAE-9424 /SAE-34024	24"	75	33710 lbs	34 ¼	3 ¾	
B400300ABACA07B	SAE-9430 /SAE-34030	30"	85	22990 lbs	40 ¼	3 ¾	
B400360ABACA07B	SAE-9436 /SAE-34036	36"	95	16680 lbs	46 ¼	3 ¾	
B400480ABACA07B	SAE-9448 /SAE-34048	48"	116	9920 lbs	58 ¼	3 ¾	

4.5 INCH BORE CYLINDERS

New Standard Model No.	Old Standard Model No. 2500 PSI / 3000 PSI	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 4.5 Inch Bore Cylinders
B450080ACDDA07B	none /SAE-34508	8"	60	47710 lbs	20 ¼	4	Note: 2" rod diameter Outside Sq. Dim. Butt - 5.5, Gland 5.5 A ¼" cylinder tube wall thickness B, C SAE 7/8 -14 extend & retract ports D 1.265" clevis pin hole size E, F 2 ¼" base clevis throat depth with 2 5/16" from pin center to port center G 2" rod clevis throat depth J 1.13" min. distance between ears at pin center line K 1 15/16" base clevis ear radius L 1 ¼" rod clevis ear radius M 1 ½" - 12 UNF-3 piston rod clevis thread size N 1 7/16" piston width O 1 15/16" gland width
B450120ACDDA07B	none /SAE-34512	12"	69	47710 lbs	24 ¼	4	
B450140ACDDA07B	none /SAE-34514	14"	74	47710 lbs	26 ¼	4	
A450160ACDDA07B	none /SAE-34516	16"	81	47710 lbs	31 ½	7 ¾	
B450180ACDDA07B	none /SAE-34518	18"	83	47710 lbs	30 ¼	4	
B450200ACDDA07B	none /SAE-34520	20"	87	47710 lbs	32 ¼	4	
B450240ACDDA07B	none /SAE-34524	24"	97	44710 lbs	36 ¼	4	
B450300ACDDA07B	none /SAE-34530	30"	110	37530 lbs	42 ¼	4	
B450360ACDDA07B	none /SAE-34536	36"	124	27430 lbs	48 ¼	4	
B450480ACDDA07B	none /SAE-34548	48"	152	16470 lbs	60 ¼	4	

5 INCH BORE CYLINDERS

New Standard Model No.	Old Standard Model No. 2500 PSI / 3000 PSI	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 5 Inch Bore Cylinders
B500080ACDDA07B	SAE-9508 /SAE-35008	8"	72	58900 lbs	20 ¼	4	Note: 2" rod diameter Outside Sq. Dim. Butt - 5.875, Gland 5.875 A ¼" cylinder tube wall thickness B, C SAE 7/8 -14 extend & retract ports D 1.265" clevis pin hole size E, F 1 ¾" base clevis throat depth with 2 5/8" from pin center to port center G 2" rod clevis throat depth J 1.13" min. distance between ears at pin center line K 1 ¾" base clevis ear radius L 1 ¼" rod clevis ear radius M 1 ½" - 12 UNF-3 piston rod clevis thread size N 1 7/16" piston width O 2 ½" gland width
B500120ACDDA07B	SAE-9512 /SAE-35012	12"	83	58900 lbs	24 ¼	4	
B500140ACDDA07B	SAE-9514 /SAE-35014	14"	88	58900 lbs	26 ¼	4	
A500160ACDDA07B	SAE-9516 /SAE-35016	16"	96	58900 lbs	31 ½	7 ¾	
B500180ACDDA07B	SAE-9518 /SAE-35018	18"	98	58900 lbs	30 ¼	4	
B500200ACDDA07B	SAE-9520 /SAE-35020	20"	103	58900 lbs	32 ¼	4	
B500240ACDDA07B	SAE-9524 /SAE-35024	24"	113	54510 lbs	36 ¼	4	
B500300ACDDA07B	SAE-9530 /SAE-35030	30"	129	37620 lbs	42 ¼	4	
B500360ACDDA07B	SAE-9536 /SAE-35036	36"	144	27520 lbs	48 ¼	4	
B500480ACDDA07B	SAE-9548 /SAE-35048	48"	175	16550 lbs	60 ¼	4	