

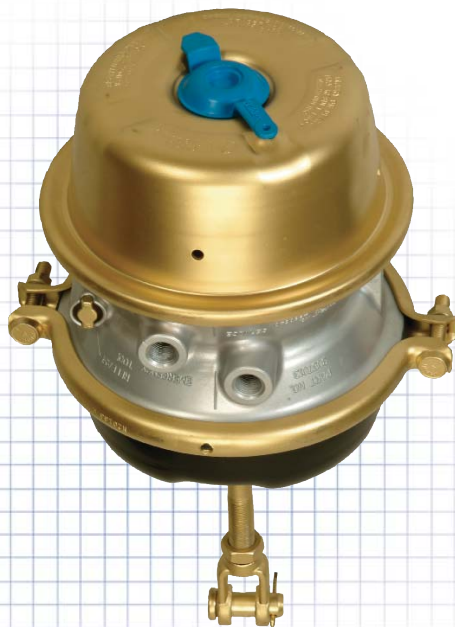
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Actuators



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03 – Actuators

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03-ACTUATORS

Part Number Index

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LC3030LS4	S	03-21	M4041302	S	03-60	MA15656	S	03-45	RTP2	S	03-53
LC3030LS4CW	S	03-21	M4041367	S	03-64	MA15657	S	03-45	RTP3	S	03-53
LC3030LS5CW	S	03-21	M4041502	S	03-64	MA15659	S	03-45	SBH24L	S	03-59
LC3030LS6CW	S	03-21	M4631656	S	03-64	MA15660	S	03-45	SBH24XL	S	03-59
LC3030P40	S	03-21	M4631656	O	03-64	MA15661	S	03-45	SBH30	S	03-59
LC3030Q	S	03-21	M4731785	S	03-64	MA15662	S	03-45	SBH30HD	S	03-59
LC3030R	S	03-21	M4731804	S	03-64	MA15663	S	03-45	SBH30L	S	03-59
LC3030S1	S	03-21	M4731986	S	03-62	MA15664	S	03-45	SC09	S	03-24
LC3030S4	S	03-21	M4740161	S	03-64	MA15665	S	03-45	SC12	S	03-24
LC3030S4CW	S	03-21	M4740313	S	03-64	MA15666	S	03-45	SC16	S	03-24
LC3030S5CW	S	03-21	M5040364	S	03-63	MA15690	S	03-48	SC16L	S	03-24
LC3030S6CW	S	03-21	M5040367	S	03-64	MA15690X	S	03-48	SC20	S	03-24
LP2430	S	03-23	M5040368	S	03-64	MA15691	S	03-48	SC20L	S	03-24
LP2430L	S	03-23	M5040370	S	03-64	MA15703	S	03-49	SC20LCW	S	03-24
LP3030	S	03-23	M5040370	O	03-64	MA15770	S	03-39	SC20P40	S	03-24
LP3030K	S	03-23	M5040372	S	03-64	MA15771	S	03-39	SC24	S	03-24
LP3030KP40	S	03-23	M5040373	S	03-64	MA15771X	S	03-39	SC24L	S	03-24
LP3030L	S	03-23	M5040377	S	03-63	MA15772	S	03-39	SC24P40	S	03-24
LP3030LK	S	03-23	M5040378	S	03-63	MA15773	S	03-40	SC24XL	S	03-24
LP3030LP40	S	03-23	M5040388	S	03-63	MA15774	S	03-40	SC24XLCW	S	03-24
LP3030P40	S	03-23	M5040390	S	03-63	MA15774X	S	03-40	SC30	S	03-24
M4031002	S	03-63	M5040390	O	03-63	MA15775	S	03-40	SC30CW	S	03-24
M4031002	O	03-63	M5040391	S	03-64	MA15775X	S	03-40	SC30L	S	03-24
M4031017	S	03-63	M5040392	S	03-64	MA15776	S	03-41	SC30LCW	S	03-24
M4031021	S	03-63	M5040402	S	03-64	MA15776X	S	03-41	SC30P40	S	03-24
M4031021	O	03-63	M5040486	S	03-64	MA15777	S	03-41	SC36	S	03-24
M4031041	S	03-64	M5040513	S	03-61	MA15777X	S	03-41	SEE COMMENTS	O	03-45
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M4031043	S	03-60	M5040524	S	03-64	MA15778X	S	03-42			
M4031044	S	03-64	M5040524	O	03-64	MA15779	S	03-42			
M4031045	S	03-64	M5040536	S	03-64	MA15779X	S	03-42			
M4031046	S	03-63	M5040538	S	03-64	MA46141X	S	03-41			
M4031046	O	03-63	M5040555	S	03-63	MQ15708	S	03-66			
M4031047	S	03-63	M5040557	S	03-64	MQ5200180	S	03-64			
M4031047	O	03-63	M5040563	S	03-64	N11257	O	03-55			
M4031061	S	03-64	M5040566	S	03-66	N11257AA	O	03-55			
M4031061	O	03-64	M5040567	S	03-60	N13368	O	03-54			
M4031070	S	03-63	M5040567	O	03-60	N14398B	O	03-53			
M4031076	S	03-64	M5040580	O	03-60	N14398E	O	03-53			
M4031089	S	03-60	M5040580	S	03-60	N20097E	O	03-57			
M4031089	O	03-60	M5040585	S	03-64	N20097G	O	03-57			
M4031090	S	03-60	M5200078	S	03-66	N20130F	O	03-57			
M4031134	S	03-64	M5200090	S	03-66	N20130R	O	03-57			
M4031134	O	03-64	M5200092	S	03-66	N20145C	O	03-57			
M4031161	S	03-64	M5200108	S	03-64	N20151	O	03-57			
M4031173	S	03-64	M5200143	S	03-60	N20151E	O	03-57			
M4031251	S	03-64	M5200173	S	03-66	N20163E	O	03-54			
M4031251	O	03-64	M5200200	S	03-66	N20166B	O	03-54			
M4031295	S	03-63	M5200201	S	03-66	N20166D	O	03-54			
M4031295	O	03-63	MA15500	S	03-43	N20168C	O	03-57			
M4031334	S	03-64	MA15500X	S	03-43	N34001	O	03-44			
M4031334	O	03-64	MA15502	S	03-43	N4630NE	O	03-15			
M4031340	S	03-64	MA15502X	S	03-43	N4830A	O	03-19			
M4031340	O	03-64	MA15504	S	03-43	N4830AA	O	03-19			
M4031742	S	03-61	MA15504X	S	03-43	N4830AD	O	03-19			
M4031743	S	03-61	MA15509	S	03-44	N4830B	O	03-19			
M4031744	S	03-61	MA15600	S	03-46	N4830CA	O	03-19			
M4036060	S	03-62	MA15601	S	03-46	N4830EA	O	03-19			
M4036066	S	03-62	MA15603	S	03-46	N4936PA	O	03-19			
M4036067	S	03-62	MA15605	S	03-46	PH30	S	03-59			
M4036068	S	03-62	MA15606	S	03-46	PP1	S	03-56			
M4036174	S	03-64	MA15607	S	03-46	PR20	S	03-58			
M4040475	S	03-63	MA15608	S	03-46	PR24	S	03-58			
M4040527	S	03-60	MA15609	S	03-46	PR24M	S	03-58			
M4040530	S	03-60	MA15610	S	03-46	PR30	S	03-58			
M4040533	S	03-60	MA15612	S	03-46	PR30M	S	03-58			
M4040596	S	03-60	MA15614	S	03-46	PR30S1	S	03-58			
M4040717	S	03-62	MA15615	S	03-46	PR36	S	03-58			
M4040719	S	03-62	MA15616	S	03-46	PR36S1	S	03-58			
M4040754	S	03-64	MA15617	S	03-46	RN21AD	S	03-66			
M4040757	S	03-64	MA15618	S	03-46	RN21AD	O	03-66			
M4040772	S	03-60	MA15619	S	03-46	RN21AE	S	03-66			
M4040796	S	03-62	MA15621	S	03-46	RN21AE	O	03-66			
M4040893	S	03-61	MA15622	S	03-46	RN21AG	O	03-54			
M4040900	S	03-60	MA15623	S	03-46	RS5	S	03-58			
M4040997	S	03-64	MA15623X	S	03-46	RS6	S	03-58			
M4041173	S	03-60	MA15624	S	03-46	RS7	S	03-58			
M4041175	S	03-60	MA15650	S	03-45	RT1	S	03-53			
M4041177	S	03-60	MA15652	S	03-45	RT2	S	03-53			
M4041178	S	03-63	MA15654	S	03-45	RT3	S	03-53			

Type "O" = OEM P/N, Type "S" = Service P/N

If OEM part # is not found on page listed, refer to the MCR for applicable cross reference.

PURPOSE OF THIS SECTION

This section is designed as a reference for Haldex new and remanufactured air brake system components and accessories, sold under the Haldex and Midland product names. Products described include all pertinent information needed to replace an OEM installed component or to help design an original installation. If there is a service number for a given part, it is noted in the product number table.

DESIGN FLEXIBILITY

The products presented in this section are described by function and usage. Technical data and mounting configurations are also provided. Throughout this section, reference is made to numerous specific OEM applications. This section is not, however, intended to be a mutually exclusive listing of all part numbers and designs available. Should the need for a design not presented occur, contact your Haldex sales representative for additional information.

WARRANTY INFORMATION

Proper service and repair are important to the safe, reliable operation of any motor vehicle. To prevent personal injury and/or vehicle damage, careful and cautious service procedures recommended by the vehicle manufacturer should be followed by anyone servicing a motor vehicle. For details on warranty of Haldex air brake system components and accessories, refer to L20221 Aftermarket Warranty Policy. For warranty returns, use L90005 Warranty Adjustment Form. To obtain further information, visit the www.haldex.com website, select **North America/English** in drop down box then search for **Warranty**.

ORDERING PROCEDURE

Most customers can place electronic orders on the www.haldex.com website by obtaining a username and password or by using EDI. For additional information about electronic orders or to place an order by phone or fax, contact Customer Service in U.S. or Canada at numbers listed below:

U.S. Customer Service:

Phone: 800–643–2374
 Fax: 800–533–1941
 Mail: Haldex Brake Products Corporation
 Attn: Customer Service Department
 10930 N. Pomona Ave.
 Kansas City, MO 64153

Canada Customer Service:


Phone: 800–267–9247
 Fax: 519–621–3924
 Mail: Haldex Limited
 Canadian Distribution Centre
 Attn: Customer Service Department
 500 Pinebush Road, Unit 1
 Cambridge, Ontario N1T 0A5

IMPORTANT NOTICE

The data listed herein is correct to the best of Haldex's knowledge and belief, having been compiled from reliable and official sources of information. However, HALDEX CANNOT ASSUME ANY RESPONSIBILITY for possible error or misapplication of the product. Final determination of the suitability of the products for the use contemplated by the Buyer is the sole responsibility of the Buyer. Haldex shall have no responsibility in connection with this suitability. It is not our intention to imply that any of the components in this catalog in connection with an engine make or model are made by any engine manufacturer.

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 10930 N. Pomona Ave.
 Kansas City, MO 64153

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Throughout this section or manual, you will notice the terms **NOTE**, **IMPORTANT**, **WARNING**, and **DANGER** followed by important product information. So that you may better understand the manual, those terms are defined below. The  warns of the possibility of personal injury or death.

NOTE:

Is used as a reminder of an instruction where the concern deals with product integrity and has to do with installation, operation, maintenance or service and care of the product.

IMPORTANT:

Used without the safety alert symbol, is used as a reminder of an instruction where the concerns deal with product integrity and have to do with installation, operation, maintenance or service and care of the product. It is intended to show that vehicle breakdown and/or expensive repair could result if the instruction is not followed.

 **WARNING:**

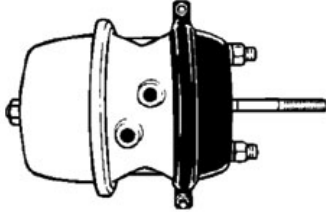
Is used with an instruction for the purpose of showing that a safe practice must be adhered to or that an unsafe practice must be avoided, and that if proper precautions are not taken, personal injury could result.

 **DANGER:**

Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or death.

LIFE SEAL MODELS

SEALED COMBINATION (LC)



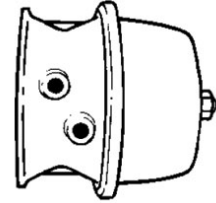
FEATURES:

- Emergency Spring Chamber is completely sealed
- Integral Caging Tool
- Guided Pressure Plate/Compression Spring Design
- Zinc Plated Spring Chamber – permanently attached for safety
- 6-Year 1 Million Mile Warranty

MODEL PART NUMBERS

LC2430 LC3030
LC2430L LC3030L

SEALED PIGGYBACK (LP)

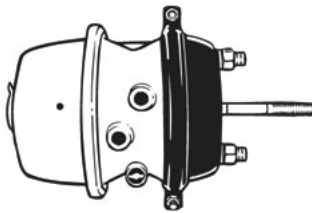


MODEL PART NUMBERS

LP2430 LP3030
LP2430L LP3030L

GOLD SEAL MODELS

SEALED COMBINATION (GC)



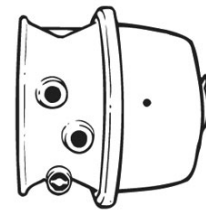
FEATURES:

- Fully Threaded Push Rod
- Orange Alert Stroke Indicator
- Piloting Diaphragm
- Piloting Dust Shield
- Epoxy Powder Coated Spring & Housing
- Zinc Plated Spring Chamber – permanently attached for safety
- 4-Year Unlimited Mileage Warranty

MODEL PART NUMBERS

GC2024 GC2430L GC3036
GC2424 GC2430XL GC3036L
GC2424L GC3030 GC3636
GC2430 GC3030L

SEALED PIGGYBACK (GP)



MODEL PART NUMBERS

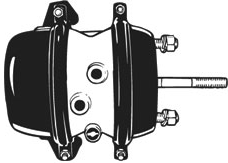

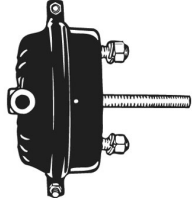
GP1624 GP2430 GP3030L
GP2024 GP2430L GP3036
GP2424 GP2430XL GP3036L
GP2424L GP3030 GP3636

LIFE SEAL AND GOLD SEAL MODEL STROKE LENGTHS

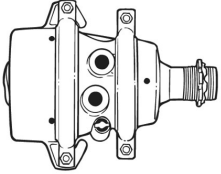
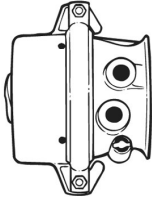
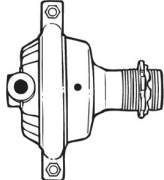
LIFE SEAL MODELS		
PART NUMBERS	STROKE (in)	STROKE (mm)
LC2430	2.50 in	64 mm
LC2430L	3.00 in	76 mm
LC3030	2.50 in	64 mm
LC3030L	3.00 in	76 mm

GOLD SEAL MODELS		
PART NUMBERS	STROKE (in)	STROKE (mm)
GP1624	2.25 in	57 mm
GC2024	2.25 in	57 mm
GC2424	2.25 in	57 mm
GC2424L	2.50 in	64 mm
GC2430	2.25 in	57 mm
GC2430L	2.50 in	64 mm
GC2430LX	3.00 in	76 mm
GC3030	2.50 in	64 mm
GC3030L	3.00 in	76 mm
GC3036	2.50 in	64 mm
GC3036L	3.00 in	76 mm
GC3636	3.00 in	76 mm

CLAMP MODELS

CLAMP COMBINATION (C)	CLAMP PIGGYBACK (P)	CLAMP SERVICE (S)
<p>FEATURES:</p> <ul style="list-style-type: none"> - Fully Threaded Push Rod - Orange Alert Stroke Indicator - Piloting Dust Shield - Piloting Diaphragm - Epoxy Powder Coated Spring, Housing & Spring Chamber - Welded Safety Hooks - 2 Year Unlimited Mileage Warranty <p>MODEL PART NUMBERS CC2024 CC2424 CC2430 CC3030</p> 	<p>FEATURES:</p> <ul style="list-style-type: none"> - Epoxy Powder Coated Spring & Spring Chamber - Piloting Diaphragm - Welded Safety Hooks - 2 Year Unlimited Mileage Warranty <p>MODEL PART NUMBERS CP1624 CP2024 CP2424 CP2430 CP3030</p> 	<p>FEATURES:</p> <ul style="list-style-type: none"> - Fully Threaded Push Rod - Orange Alert Stroke Indicator - Piloting Dust Shield - 3 Year Unlimited Mileage Warranty <p>MODEL PART NUMBERS SC9 SC12 SC16 SC16L SC20 SC20L SC24 SC24L SC24XL SC30 SC30L SC36</p> 

WEDGE MODELS

CLAMP COMBINATION (SB)	CLAMP PIGGYBACK (PB)	CLAMP SERVICE CHAMBER (SD)
<p>FEATURES:</p> <ul style="list-style-type: none"> - Available in Multiple Tube Lengths for Bendix or Rockwell Wedge Brakes - Epoxy Powder Coated Spring - Corrosion Resistant A-360 Aluminum - Safety Hooks on Spring Chamber - 2 Year Unlimited Mileage Warranty <p>MODEL PART NUMBERS 0912SB 0916SB 1212SB 1216SB</p> 	<p>FEATURES:</p> <ul style="list-style-type: none"> - Epoxy Powder Coated Spring - Corrosion Resistant A-360 Aluminum - Safety Hooks on Spring Chamber - 2 Year Unlimited Mileage Warranty <p>MODEL PART NUMBERS 0912PB 0916PB 1212PB 1216PB</p> 	<p>FEATURES:</p> <ul style="list-style-type: none"> - Available in Multiple Tube Lengths for Bendix or Rockwell Wedge Brakes - Zinc Plated Epoxy Powder Coat and Aluminum A-360 Corrosion Protection - 2 Year Unlimited Mileage Warranty <p>MODEL PART NUMBERS 09SD 12SD</p> 

SERVICE AND WEDGE BRAKE MODEL STROKE LENGTHS

SERVICE BRAKE MODELS

PART NUMBERS	STROKE (in)	STROKE (mm)
SC9	1.75 in	44 mm
SC12	1.75 in	44 mm
SC16	2.25 in	57 mm
SC16L	2.50 in	64 mm
SC20	2.25 in	57 mm
SC20L	2.50 in	64 mm
SC24	2.25 in	57 mm
SC24L	2.50 in	64 mm
SC24XL	3.00 in	76 mm
SC30	2.50 in	64 mm
SC30L	3.00 in	76 mm
SC36	3.00 in	76 mm

WEDGE BRAKE MODELS

PART NUMBERS	STROKE (in)	STROKE (mm)
09SD	1.75 in	44 mm
12SD	1.75 in	44 mm
0912SB	1.75 in	44 mm
0916SB	1.75 in	44 mm
1212SB	1.75 in	44 mm
1216SB	1.75 in	44 mm

How to Identify Haldex Anchorlok Spring Brakes

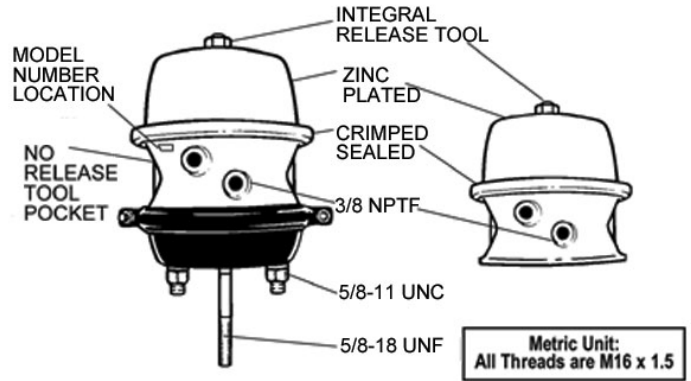
SPRING BRAKES

LC = Life Seal Combination Spring Brake

LP = Life Seal Piggyback

L = Long Stroke – 3.0" Stroke

LIFE SEAL BRAKE



GC = Gold Seal Combination Spring Brake

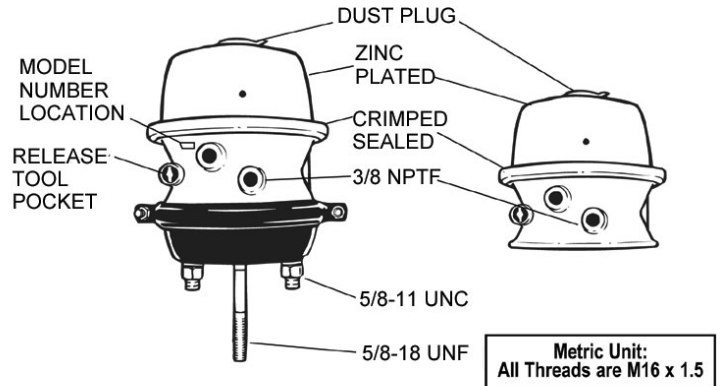
GP = Gold Seal Piggyback

L = Long Stroke

XL = Extra Long Stroke

HO = High Output

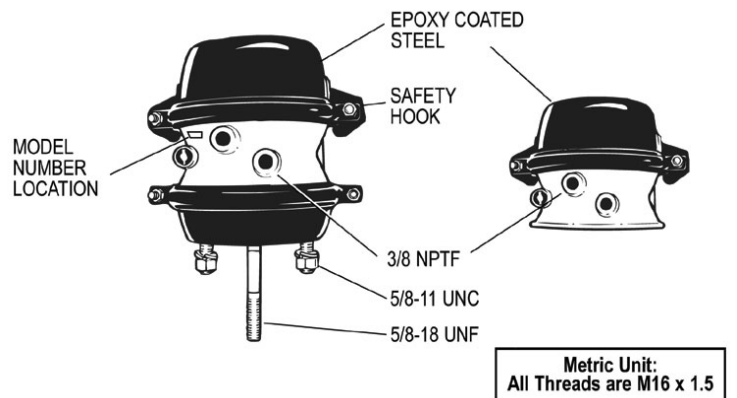
GOLD SEAL BRAKE



CC = Clamp Combination Spring Brake

CP = Clamp Piggyback

CLAMP TYPE BRAKE



03-ACTUATORS

Identify Spring Brakes

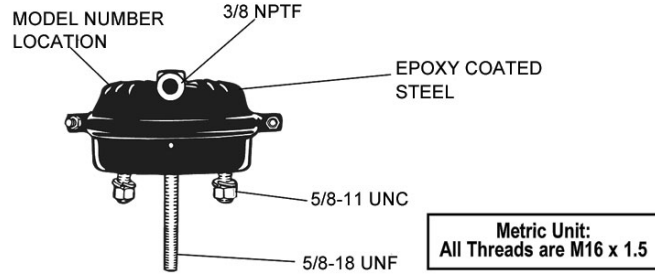
SERVICE BRAKES

S = Clamp Service Brake

L = Long Stroke

XL = Extra Long Stroke

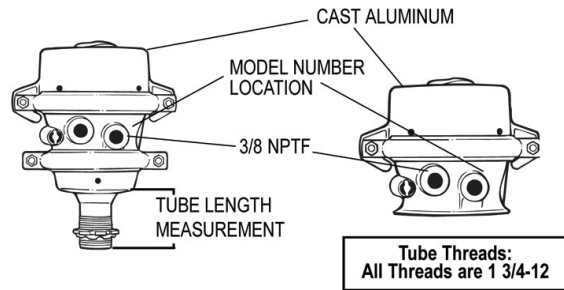
R = Remote Mount



PUSH RODS WEDGE CLAMP BRAKES

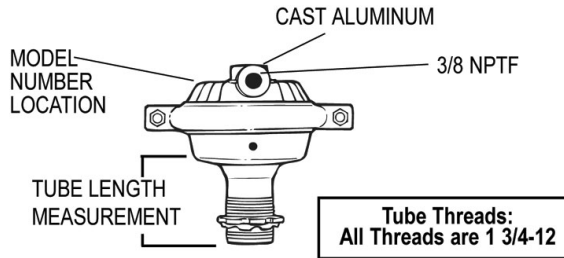
BENDIX
ROCKWELL
SB = Wedge Clamp Combination Spring Brakes

PB = Wedge Clamp Piggyback

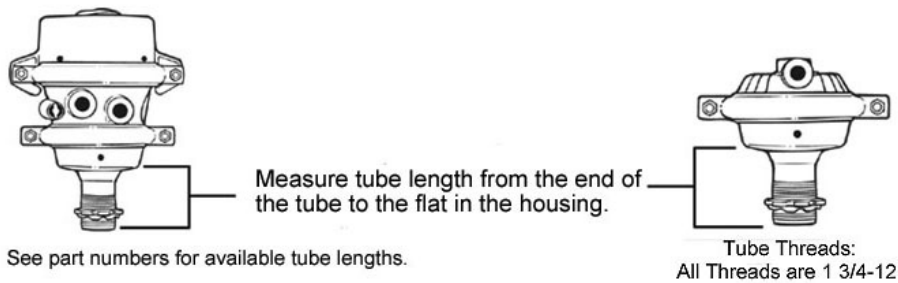


PUSH RODS WEDGE SERVICE BRAKES

BENDIX
ROCKWELL
SD = Wedge Clamp Service Chamber



WEDGE BRAKE TUBE LENGTH MEASUREMENT



NOMENCLATURE TABLE

SC Service Chamber	Prefix
CC Clamp Style Combination	GP Gold Seal Piggyback
CP Clamp Style Piggyback	LC Life Seal Combination
MC Midland Combination	LP Life Seal Piggyback
MP Midland Piggyback	
GC Gold Seal Combination	

K Piggyback Kit
L Long Stroke
XL Extra Long Stroke
CS Clevis, Stamped
CF Clevis, Forged
CW Clevis, Welded
HD Heavy Duty
HO High Output

Suffix
XHD Extra Heavy Duty
Q 3/4" Push Rod
Pxx Package xx Size
A Cold Weather, Arctic
B Dust Boot or Bulk
M Metric
N Neoprene, Diaphragm

S-CAM / AIR DISC BRAKES

TABLE I

Model	Available Stroke		Service	Life Seal	Life Seal Piggyback	Clamp Style	Clamp Style Piggyback	Gold Seal	Gold Seal Piggyback	Midland	3/4" Push Rod Option	Heavy Duty Return Spring Option	Metric Thread Option
	Size / Type	inch											
9	1.75	44	x										
12	1.75	44	x										
16	2.25	57	x										
16	2.50	64	x										
20	2.25	57	x										
20	2.50	64	x										
24	2.25	57	x										x
24	2.50	64	x										x
24	3.00	76	x										x
30	2.50	64	x								x		x
30	3.00	76	x								x		x
36	3.00	76	x								x		x
1624	2.25	57					x		x				x
2024	2.25	57				x	x	x	x				x
2030	3.00	76						x	x				x
2424	2.25	57				x	x	x	x				x
2424	2.50	64						x	x				x
2430	2.50	64		x	x			x	x			x	x
2430	3.00	76		x	x			x	x			x	x
3030	2.50	64		x	x	x	x	x	x	x		x	x
3030	3.00	76		x	x			x	x			x	x
3036	2.50	64						x	x				x
3036	3.00	76						x	x				x
3636	3.00	76						x	x				x

x = Available

Referring to Table 1 above, the following is a step-by-step example of how to determine a Haldex Anchorlok Brake Model Type.

EXAMPLE: **LC 24 30 - L - HD - HO - M**
 1 2 3 4 5 6

OPTION CODE DEFINITIIONS:

1. This is the desired style (refer to Spring Brake Models page for descriptions). This information is required. The example is a Life Seal combination unit.
2. This is the size of the unit in square inches of effective area. Two (2) digits are used for a service only chamber. Four (4) digits are used for combination service and emergency units. This information is required. In this example 24 is the service side square inch area and 30 is the emergency side.
3. This feature is optional where indicated. Please refer to the Technical Data Section for further information on Long Stroke (L) or Extra Long Stroke (XL) units.
4. Optional feature, HD designates Heavy Duty Return Spring and/or Heavy Duty Housing Assembly. Not applicable on GP and P units.
5. Optional feature, HO designates High Output main compression spring.
6. "M" denotes Metric push rod, mounting studs and air inlet port threads; all of which are M16 x 1.5 – 6g. Spring brakes may have a combination of both standard and metric threads.

WEDGE BRAKES

TABLE II

1 MODEL TYPE	WEDGE CLAMP COMBINATION		2 WEDGE CLAMP SERVICE	3 TUBE LENGTHS (LISTED TUBE LENGTHS ARE AVAILABLE FOR ALL WEDGE BRAKES)		4 FOUNDATION BRAKE STYLE B (BENDIX) R (ROCKWELL)
	SB	PB		SD		
09			X	2.25"	6.00"	B=BENDIX R=ROCKWELL
0912	X	X		3.00"	7.00"	
0916	X	X		3.50"	7.88"	
12			X	4.00"	9.38"	
1212	X	X		4.50"	10.20"	
1216	X	X		5.00"	14.50"	

X = Available

Referring to Table II above, the following is a step-by-step example of how to determine an Haldex Anchorlok Wedge Brake Model Type.

EXAMPLE: **1216 - SB - 300 - R**
 1 2 3 4

CODE DEFINITIONS:

- 1 This is the size of the unit in square inches of effective area. 2 digits are used for a service only chamber. 4 digits indicate a combination service/spring brake with the first 2 digits indicating the service side size and the last 2 digits indicating the emergency side size.
- 2 This is the desired style (refer to Wedge Brake models).
- 3 Tube length (SB & SD only). All lengths listed are available for all sizes listed. 3 or 4 digits are required, based on desired length. Drop the decimal point. Example is 3.00" (refer to Wedge Brake models for how to measure tube).
- 4 R = Rockwell, B = Bendix, type foundation brakes. This information is required on SB & SD units only.

SPRING BRAKE AVAILABLE OPTIONS:

HEAVY DUTY RETURN SPRING - TABLE I Item 4, Option Code 5

The heavy duty return spring is a high output spring (100 lb.) used primarily with Kelsey-Hayes (Gunite), Bendix and BF Goodrich disc brakes. It is standard on 36S and 3636GC.

3/4" PUSH ROD - TABLE I Item 3, Option Code 4

3/4 -12 UNF threaded push rod. Longer push rods are also available at additional cost. Consult Haldex applications engineering for additional information.

DUST BOOT ASSEMBLY -

Available separately, recommended for applications involving high amounts of potential environmental contaminants.

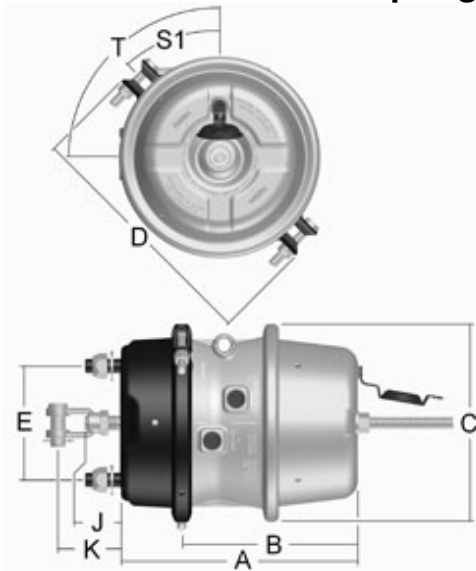
METRIC THREADS - TABLE I Item 5, Option Code 6

Push rod, mounting studs and air inlet port threads are all M16 x 1.5 - 6 g. Spring brakes may have a combination of both standard and metric threads.

HIGH OUTPUT COMPRESSION SPRING -

Available on select models to increase spring force output.

Gold Seal Combination Spring Brakes



Stud Type: 5/8-11 UNC Grade 5
Stud Length: 1.50 in. (38.1mm)
Pushrod Thread: 5/8-18 UNF
Air Port Threads: 3/8-18 NPTF

Features:

- Superior Power Spring Technology
Advanced powder coating process; Resists corrosion and fatigue
- Double O-ring Centerseal
Two O-rings for positive sealing and plastic bearings for long life
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Rugged Service Housing
9 gauge steel, powder coated
- Orange Alert® Stroke Indicator
- Self-piloting Dust Shield
- Sizes to fit all drum brake applications

Specifications:

- A – Length from mounting bracket to end of Spring Housing
- B – Length of Piggyback
- C – Dimension at rolled Spring Housing flange
- D – Dimension at Service Clampband
- E – Stud Spacing 4.75 in. (120.7mm)
- J – Pushrod Length from face of Service Housing
- K – Distance to Clevis Pin centerline from face of Service Housing
- S1 – Service Clampband position (0°)
- T – Air Port position (90°)

Notes:

- 1) Square shape bosses on air ports identify Spring Brakes with Long Stroke and 3.0" (76mm), see L55281W literature piece for more information.

SKU#	Product Description	Avail. Stroke	A	B	C	D	J	K	Wt. (each)	Qty.
GC2024	Combination – Size 2024	2.25" 57mm	8.6" 218mm	6.3" 160mm	7.5" 191mm	8.7" 221mm	9.68"	–	16.5 lbs. 7.5 kg.	2
GC2030XL	Combination – Extra Long Stroke – Size 2030 – Square Bosses	3.00" 76mm	9.9" 251mm	7.4" 188mm	8.3" 211mm	9.4" 239mm	10.00"	–	20.1 lbs. 9.1 kg.	1
GC2030XLCW	Combination with Welded Clevis – Extra Long Stroke – Size 2030 – Square Bosses	3.00" 76mm	9.9" 251mm	7.4" 188mm	8.3" 211mm	9.4" 239mm	10.00"	2.25"	20.1 lbs. 9.1 kg.	2
GC2424	Combination – Size 2424	2.25" 57mm	8.8" 222mm	6.5" 165mm	7.5" 191mm	9.6" 244mm	9.65"	–	17.3 lbs. 7.8 kg.	2
GC2424L	Combination – Long Stroke – Size 2424	2.50" 64mm	9.3" 235mm	6.8" 172mm	7.5" 191mm	9.4" 239mm	9.50"	–	17.3 lbs. 7.8 kg.	2
GC2424LP40	Combination – Long Stroke – Size 2424 (Bulk Packed)	2.50" 64mm	9.3" 235mm	6.8" 172mm	7.5" 191mm	9.4" 239mm	9.50"	–	17.3 lbs. 7.8 kg.	40
GC2424P40	Combination – Long Stroke – Size 2424 (Bulk Packed)	2.25" 57mm	8.8" 222mm	6.5" 165mm	7.5" 191mm	9.6" 244mm	9.65"	–	17.3 lbs. 7.8 kg.	40
GC2430	Combination – Size 2430	2.25" 57mm	9.3" 235mm	6.7" 170mm	8.3" 211mm	9.4" 239mm	9.50"	–	19.1 lbs. 8.7 kg.	2
GC2430B	Combination – Size 2430 (Bulk Packed)	2.25" 57mm	9.3" 235mm	6.7" 170mm	8.3" 211mm	9.4" 239mm	9.50"	–	19.1 lbs. 8.7 kg.	24
GC2430L	Combination – Long Stroke – Size 2430	2.50" 64mm	9.3" 235mm	6.8" 172mm	8.3" 211mm	9.4" 239mm	9.50"	–	19.1 lbs. 8.7 kg.	2

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Gold Seal Combination Spring Brakes

GC2430LP40	Combination – Long Stroke – Size 2430 (Bulk Packed)	2.50" 64mm	9.3" 235mm	6.8" 172mm	8.3" 211mm	9.4" 239mm	9.50"	–	19.1 lbs. 8.7 kg.	40
GC2430XL	Combination – Extra Long Stroke – Size 2430 – Square Bosses	3.00" 76mm	9.9" 251mm	7.4" 188mm	8.3" 211mm	9.4" 239mm	10.00"	–	20.3 lbs. 9.2 kg.	1
GC2430XLCW	Combination with Welded Clevis – Extra Long Stroke – Size 2430 – Square Bosses	3.00" 76mm	9.9" 251mm	7.4" 188mm	8.3" 211mm	9.4" 239mm	10.00"	2.25"	20.3 lbs. 9.2 kg.	2
GC3024	Combination – Size 3024	2.50" 64mm	9.2" 234mm	6.9" 175mm	7.5" 191mm	10.2" 259mm	10.00"	–	19.0 lbs. 8.6 kg.	2
GC3030	Combination – Size 3030	2.50" 64mm	9.0" 229mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	10.00"	–	20.3 lbs. 9.2 kg.	2
GC3030CF	Combination with Forged Clevis – Size 3030	2.50" 64mm	9.0" 229mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	10.00"	11.25"	20.8 lbs. 9.4 kg.	1
GC3030CFP40	Combination with Forged Clevis – Size 3030 (Bulk Packed)	2.50" 64mm	9.0" 229mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	10.00"	11.25"	20.8 lbs. 9.4 kg.	40
GC3030CW	Combination with Welded Clevis – Size 3030	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	1.00"	2.25"	20.0 lbs. 9.1 kg.	2
GC3030CWP40	Combination with Welded Clevis – Size 3030	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	1.00"	2.25"	20.0 lbs. 9.1 kg.	40
GC3030HD	Combination – Heavy Duty – Size 3030	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	10.00"	11.20"	21.5 lbs. 9.7 kg.	1
GC3030L	Combination – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.5" 241mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	–	21.5 lbs. 9.7 kg.	2
GC3030LCW	Combination with Welded Clevis – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.9" 251mm	7.4" 187mm	8.3" 211mm	10.2" 259mm	1.00"	2.25"	21.2 lbs. 9.6 kg.	2
GC3030LCWP40	Combination with Welded Clevis – Long Stroke – Size 3030 – Square Bosses (Bulk Packed)	3.00" 76mm	9.9" 251mm	7.4" 187mm	8.3" 211mm	10.2" 259mm	1.00"	2.25"	21.2 lbs. 9.6 kg.	40
GC3030LHD	Combination – Heavy Duty – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.9" 251mm	7.4" 187mm	8.3" 211mm	10.2" 259mm	10.00"	11.20"	22.7 lbs. 10.3 kg.	1
GC3030LP40	Combination – Long Stroke – Size 3030 – Square Bosses (Bulk Packed)	3.00" 76mm	10.3" 261mm	7.7" 196mm	8.3" 211mm	10.1" 257mm	10.00"	–	21.5 lbs. 9.7 kg.	40
GC3030LQ	Combination – Long Stroke with 3/4" Pushrod Thread – Size 3030 – Square Bosses	3.00" 76mm	9.5" 241mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	16.80"	–	21.5 lbs. 9.7 kg.	2
GC3030LR	Combination – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.5" 241mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	14.00"	–	21.8 lbs. 9.9 kg.	1
GC3030LS4	Combination with Cut-to-Length Rod, without Clevis for Intraax – Long Stroke – Size 3030 (T = 0°) – Square Bosses	3.00" 76mm	9.5" 241mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	–	21.5 lbs. 9.7 kg.	2
GC3030LS4CW	Combination with Welded Clevis – Long Stroke – Size 3030 – Square Bosses (Trailer, Intraax®)	3.00" 76mm	9.5" 241mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	–	21.5 lbs. 9.7 kg.	2
GC3030LS5CW	Combination with Welded Clevis – Long Stroke – Size 3030 – Square Bosses (Trailer, Vantraax®)	3.00" 76mm	9.5" 241mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	–	21.5 lbs. 9.7 kg.	2
GC3030LS6CW	Combination with Welded Clevis – 5/8" Pin – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.5" 241mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	–	21.5 lbs. 9.7 kg.	2

Gold Seal Combination Spring Brakes

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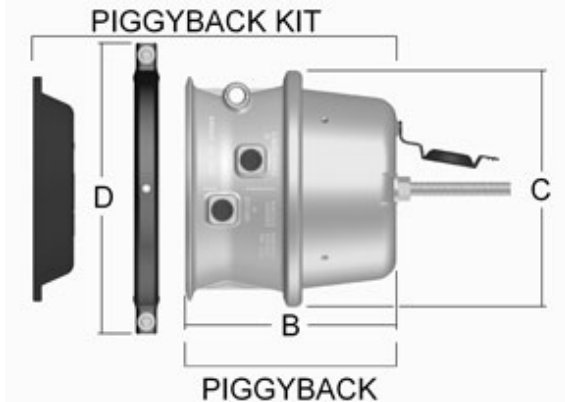
GC3030P40	Combination – Size 3030 (Bulk Packed)	2.50" 64mm	9.0" 229mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	10.00"	–	20.3 lbs. 9.2 kg.	40
GC3030Q	Combination with 3/4" Pushrod Thread – Size 3030	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	16.80"	–	21.1 lbs. 9.6 kg.	1
GC3030R	Combination – Size 3030	2.50" 64mm	9.0" 229mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	14.00"	–	20.5 lbs. 9.3 kg.	1
GC3030RCF	Combination with Forged Clevis – Size 3030	2.50" 64mm	9.0" 229mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	14.00"	15.20"	21.0 lbs. 9.5 kg.	1
GC3030RP40	Combination – Size 3030 (Bulk Packed)	2.50" 64mm	9.0" 229mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	14.00"	–	20.5 lbs. 9.3 kg.	40
GC3030S1	Combination with Clevis & Boot – Size 3030 (S1 = 330° Service)	2.50" 64mm	9.0" 229mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	1.8"	3.0"	20.1 lbs. 9.1 kg.	1
GC3030S2	Combination with Cut-to-Length Rod, without Clevis for Trailers – Size 3030	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	5.70"	–	20.0 lbs. 9.1 kg.	2
GC3030S2P40	Combination with Cut-to-Length Rod, without Clevis for Trailers – Size 3030 (Bulk Packed)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	5.70"	–	20.0 lbs. 9.1 kg.	40
GC3030S3	Combination with Cut-to-Length Rod and Clevis for Trucks – Size 3030	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	1.80"	3.02"	20.1 lbs. 9.1 kg.	2
GC3030S3P40	Combination with Cut-to-Length Rod and Clevis for Trucks – Size 3030 (Bulk Packed)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	1.80"	3.02"	20.1 lbs. 9.1 kg.	40
GC3030S4	Combination with Cut-to-Length Rod, without Clevis for Intraax – Size 3030 (T = 0°)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	9.90"	–	20.3 lbs. 9.2 kg.	2
GC3030S4CW	Combination with Welded Clevis – Size 3030 (Trailer, Intraax®)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	(9.75)"	11.00"	20.9 lbs. 9.5 kg.	2
GC3030S4P40	Combination with Cut-to-Length Rod, without Clevis for Intraax – Size 3030 (T = 0°) (Bulk Packed)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	9.90"	–	20.3 lbs. 9.2 kg.	40
GC3030S5	Combination with Cut-to-Length Rod, without Clevis for Vantraax – Size 3030 (T = 0°)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	5.90"	–	20.0 lbs. 9.1 kg.	2
GC3030S5CW	Combination with Welded Clevis – Size 3030 (Trailer, Vantraax®)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	(5.50)"	6.80"	20.9 lbs. 9.5 kg.	2
GC3030S5P40	Combination with Cut-to-Length Rod, without Clevis for Vantraax – Size 3030 (T = 0°) (Bulk Packed)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	5.90"	–	20.0 lbs. 9.1 kg.	40
GC3030S6CW	Combination with Welded Clevis – 5/8" Pin – Size 3030	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	(5.50)"	6.80"	20.9 lbs. 9.5 kg.	2
GC3036	Combination – Size 3036	2.50" 64mm	9.8" 250mm	7.3" 185mm	9.2" 234mm	9.7" 246mm	9.44"	–	24.7 lbs. 11.2 kg.	2
GC3036L	Combination – Long Stroke – Size 3036 – Square Bosses	3.00" 76mm	10.6" 270mm	8.0" 203mm	9.4" 239mm	11.2" 284mm	10.00"	–	25.0 lbs. 11.3 kg.	2
GC3036LCW	Combination with Welded Clevis – Long Stroke – Size 3036 – Square Bosses	3.00" 76mm	10.6" 270mm	7.3" 185mm	8.3" 211mm	10.2" 259mm	1.00"	2.25"	24.7 lbs. 11.2 kg.	2
GC3036Q							16.80"	–		1

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Gold Seal Combination Spring Brakes

	Combination with 3/4" Pushrod Thread – Size 3036	2.50" 64mm	9.8" 250mm	7.3" 185mm	9.1" 231mm	10.2" 259mm			25.7 lbs. 11.7 kg.	
GC3636	Combination – Size 3636	3.00" 76mm	10.7" 272mm	8.0" 203mm	9.4" 239mm	11.2" 284mm	9.00"	–	26.0 lbs. 11.8 kg.	2
GC3636CW	Combination with Welded Clevis – Size 3636	3.00" 76mm	10.7" 272mm	8.0" 203mm	9.1" 231mm	11.3" 286mm	1.00"	2.25"	25.5 lbs. 11.6 kg.	2
GC3636P40	Combination – Size 3636 (Bulk Packed)	3.00" 76mm	10.4" 264mm	8.0" 203mm	9.4" 239mm	11.3" 286mm	9.00"	–	26.0 lbs. 11.8 kg.	40
GC3636Q	Combination with 3/4" Pushrod Thread – Size 3636	3.00" 76mm	10.7" 272mm	8.0" 203mm	9.4" 239mm	11.3" 286mm	9.00"	–	26.7 lbs. 12.1 kg.	1

Gold Seal Piggyback Spring Brakes



Air Port Treads: 3/8"-18 NPTF

Features:

- Superior Power Spring Technology
Advanced powder coating process; Resists corrosion and fatigue
- Double O-ring Centerseal
Two O-rings for positive sealing and plastic bearings for long life
- Save Time & Money
Piggyback kits are simple to install

Specifications:

- B** – Length of Piggyback
- C** – Dimension at rolled Spring Housing flange
- D** – Dimension at Service Clampband

Notes:

- 1) Square shape bosses on air ports identify Spring Brakes with Long Stroke and 3.0" (76mm), see L55281W literature piece for more information.

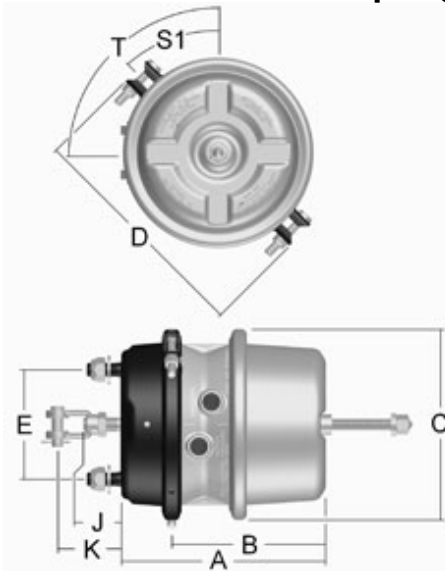
SKU#	Product Description	Avail. Stroke	B	C	D	Wt. (each)	Qty.
GP1624	Piggyback – Size 1624	2.25" 57mm	6.4" 164mm	7.5" 191mm	–	10.0 lbs. 4.5 kg.	2
GP2024	Piggyback – Size 2024	2.25" 57mm	6.3" 160mm	8.7" 221mm	–	10.0 lbs. 4.5 kg.	2
GP2424	Piggyback – Size 2424	2.25" 57mm	6.5" 165mm	7.5" 191mm	–	10.4 lbs. 4.7 kg.	2
GP2424L	Piggyback – Long Stroke – Size 2424	2.50" 64mm	6.8" 172mm	7.5" 191mm	–	10.2 lbs. 4.6 kg.	2
GP2424LP40	Piggyback – Long Stroke – Size 2424 (Bulk Packed)	2.50" 64mm	6.8" 172mm	7.5" 191mm	–	10.2 lbs. 4.6 kg.	40
GP2424P40	Piggyback – Size 2424	2.25" 57mm	6.5" 165mm	7.5" 191mm	–	10.4 lbs. 4.7 kg.	40
GP2430	Piggyback – Size 2430	2.25" 57mm	6.8" 172mm	8.3" 211mm	–	11.7 lbs. 5.3 kg.	2
GP2430L	Piggyback – Long Stroke – Size 2430	2.50" 64mm	6.8" 172mm	8.3" 211mm	–	11.8 lbs. 5.4 kg.	2
GP2430XL	Piggyback – Extra Long Stroke – Size 2430 – Square Bosses	3.00" 76mm	7.4" 188mm	8.3" 211mm	–	12.6 lbs. 5.7 kg.	1
GP3030	Piggyback – Size 3030	2.50" 64mm	6.7" 170mm	8.3" 211mm	–	11.8 lbs. 5.4 kg.	2
GP3030K	Piggyback Kit – Size 3030	2.50" 64mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	11.8 lbs. 5.4 kg.	1
GP3030KP40	Piggyback Kit – Size 3030 (Bulk Packed)	2.50" 64mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	11.8 lbs. 5.4 kg.	40
GP3030L	Piggyback – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	7.2" 183mm	8.3" 211mm	–	12.9 lbs. 5.8 kg.	2
GP3030LK	Piggyback Kit – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	12.9 lbs. 5.8 kg.	1
GP3030LKP40	Piggyback Kit – Long Stroke – Size 3030 – Square Bosses (Bulk Packed)	3.00" 76mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	12.9 lbs. 5.8 kg.	40
GP3030LP40					–		40

03–ACTUATORS

Gold Seal Piggyback Spring Brakes

	Piggyback – Long Stroke – Size 3030 – Square Bosses (Bulk Packed)	3.00" 76mm	7.2" 183mm	8.3" 211mm		12.9 lbs. 5.8 kg.	
GP3030P40	Piggyback – Size 3030 (Bulk Packed)	2.50" 64mm	6.7" 170mm	8.3" 211mm	–	11.8 lbs. 5.4 kg.	40
GP3036	Piggyback – Size 3036	2.50" 64mm	7.3" 185mm	9.2" 234mm	–	15.7 lbs. 7.1 kg.	2
GP3036L	Piggyback – Long Stroke – Size 3036 – Square Bosses	3.00" 76mm	7.3" 185mm	9.2" 234mm	–	15.9 lbs. 7.2 kg.	2
GP3636	Piggyback – Size 3636	3.00" 76mm	8.0" 203mm	9.4" 239mm	–	16.4 lbs. 7.4 kg.	2

Life Seal Combination Spring Brakes



Stud Type: 5/8–11 UNC Grade 5
Stud Length: 1.50 in. (38.1mm)
Pushrod Thread: 5/8–18 UNF
Air Port Threads: 3/8–18 NPTF

Features:

- Power Set® Spring Technology
Proprietary heat treating process results in unsurpassed force output consistency, superior fatigue life and minimal force loss over time
- Patented Internal Check Valve
Relieves any pressure build-up in the sealed spring chamber and prevents outside air and contaminants from entering the chamber
- Adapter Seal and Bearing
Custom design EGP guide bearing and O-ring provide a long lasting and air-tight seal
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold Superior flexibility even at -40°F
- Rugged Service Housing
9 gauge steel, powder coated
- Orange Alert® Stroke Indicator
- Self-piloting Dust Shield
- Sizes to fit most drum brake applications

Specifications:

- A –** Length from mounting bracket to end of Spring Housing
B – Length of Piggyback
C – Dimension at rolled Spring Housing flange
D – Dimension at Service Clamband
E – Stud Spacing 4.75 in. (120.7mm)
J – Pushrod Length from face of Service Housing
K – Distance to Clevis Pin centerline from face of Service Housing
S1– Service Clamband position (0°)
T – Air Port position (90°)

Notes:

- 1) Square shape bosses on air ports identify Spring Brakes with Long Stroke and 3.0" (76mm), see L55281W literature piece for more information.

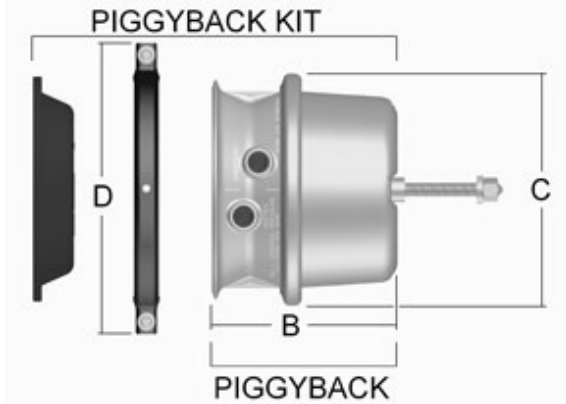
SKU#	Product Description	Avail. Stroke	A	B	C	D	J	K	Wt. (each)	Qty.
LC2430	Combination – Size 2430	2.50" 64mm	9.6" 244mm	7.2" 183mm	8.3" 211mm	9.2" 234mm	9.50"	–	20.1 lbs. 9.1 kg.	1
LC2430CW	Combination with Welded Clevis – Size 2430	2.50" 64mm	9.6" 244mm	7.2" 183mm	8.3" 211mm	9.2" 234mm	1.00"	2.25"	20.1 lbs. 9.1 kg.	2
LC2430L	Combination – Long Stroke – Size 2430 – Square Bosses	3.00" 76mm	9.8" 249mm	7.4" 188mm	8.3" 211mm	9.2" 234mm	8.62"	–	21.19 lbs. 9.6 kg.	1
LC3030	Combination – Size 3030	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	10.00"	–	21.2 lbs. 9.6 kg.	1
LC3030CW	Combination with Welded Clevis – Size 3030	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	1.00"	2.25"	20.9 lbs. 9.5 kg.	2
LC3030CWP40	Combination with Welded Clevis – Size 3030 (Bulk Packed)	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	5.70"	–	20.9 lbs. 9.5 kg.	40
LC3030HD	Combination – Heavy Duty – Size 3030	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	10.00"	11.20"	22.3 lbs. 10.1 kg.	1
LC3030L	Combination – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	–	22.0 lbs. 10.0 kg.	1

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Life Seal Combination Spring Brakes

LC3030LCW	Combination with Welded Clevis – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	1.00"	2.25"	21.3 lbs. 9.7 kg.	2
LC3030LCWP40	Combination with Welded Clevis – Long Stroke – Size 3030 – Square Bosses (Bulk Packed)	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	1.00"	2.25"	21.3 lbs. 9.7 kg.	40
LC3030LHD	Combination – Heavy Duty – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	11.20"	22.9 lbs. 10.4 kg.	1
LC3030LP40	Combination – Long Stroke – Size 3030 – Square Bosses (Bulk Packed)	3.00" 76mm	9.8" 249mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	–	21.7 lbs. 9.8 kg.	40
LC3030LQ	Combination – Long Stroke with 3/4" Pushrod Thread – Size 3030 – Square Bosses	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	16.80"	–	22.0 lbs. 10.0 kg.	2
LC3030LR	Combination – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.8" 249mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	14.00"	–	22.1 lbs. 10.0 kg.	1
LC3030LS4	Combination with Cut-to-Length Rod, without Clevis for Intraax – Long Stroke – Size 3030 (T = 0°) – Square Bosses	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	10.00"	–	22.0 lbs. 10.0 kg.	1
LC3030LS4CW	Combination with Welded Clevis – Long Stroke – Size 3030 – Square Bosses (Trailer, Intraax®)	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	(9.75)"	11.00"	22.4 lbs. 10.1 kg.	2
LC3030LS5CW	Combination with Welded Clevis – Long Stroke – Size 3030 – Square Bosses (Trailer, Vantraax®)	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	(5.50)"	6.80"	22.4 lbs. 10.1 kg.	2
LC3030LS6CW	Combination with Welded Clevis – 5/8" Pin – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	9.7" 246mm	7.2" 183mm	8.3" 211mm	10.2" 259mm	(5.50)"	6.80"	22.4 lbs. 10.1 kg.	2
LC3030P40	Combination – Size 3030 (Bulk Packed)	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	10.00"	–	20.7 lbs. 9.4 kg.	40
LC3030Q	Combination with 3/4" Pushrod Thread – Size 3030	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	9.2" 234mm	16.80"	–	21.2 lbs. 9.6 kg.	1
LC3030R	Combination – Size 3030	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	14.00"	–	21.4 lbs. 9.7 kg.	1
LC3030S1	Combination with Cut-to-Length Rod, without Clevis for Trailers – Size 3030	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	4.40"	–	21.4 lbs. 9.7 kg.	1
LC3030S4	Combination with Cut-to-Length Rod, without Clevis for Intraax – Size 3030 (T = 0°)	2.50" 64mm	9.0" 229mm	6.8" 173mm	8.3" 211mm	10.2" 259mm	9.90"	–	20.3 lbs. 9.2 kg.	2
LC3030S4CW	Combination with Welded Clevis – Size 3030 (Trailer, Intraax®)	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	(9.75)"	11.00"	20.9 lbs. 9.5 kg.	2
LC3030S5CW	Combination with Welded Clevis – Size 3030 (Trailer, Vantraax®)	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	(5.50)"	6.80"	20.9 lbs. 9.5 kg.	2
LC3030S6CW	Combination with Welded Clevis – 5/8" Pin – Size 3030	2.50" 64mm	8.9" 226mm	6.7" 170mm	8.3" 211mm	10.2" 259mm	(5.50)"	6.80"	20.9 lbs. 9.5 kg.	2

Life Seal Piggyback Spring Brakes



Air Port Threads: 3/8–18 NPTF

Features:

- **Power Set® Spring Technology**
Proprietary heat treating process results in unsurpassed force output consistency, superior fatigue life and minimal force loss over time
- **Patented Internal Check Valve**
Relieves any pressure build-up in the sealed spring chamber and prevents outside air and contaminants from entering the chamber
- **Adapted Seal and Bearing**
Custom design EGP guide bearing and O-ring provide a long lasting and air-tight seal
- **Save Time & Money**
Piggyback kits are simple to install

Specifications:

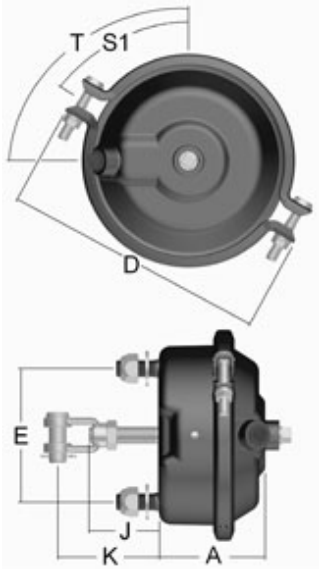
- B** – Length of Piggyback
- C** – Dimension at rolled Spring Housing flange
- D** – Dimension at Service Clampband

Notes:

- 1) Square shape bosses on air ports identify Spring Brakes with Long Stroke and 3.0" (76mm), see L55281W literature piece for more information.

SKU#	Product Description	Avail. Stroke	B	C	D	Wt. (each)	Qty.
LP2430	Piggyback – Size 2430	2.50" 64mm	7.2" 183mm	8.3" 211mm	–	12.1 lbs. 5.5 kg.	1
LP2430L	Piggyback Long Stroke – Size 2430 – Square Bosses	3.00" 76mm	7.4" 188mm	8.3" 211mm	–	12.5 lbs. 5.7 kg.	1
LP3030	Piggyback – Size 3030	2.50" 64mm	6.7" 170mm	8.3" 211mm	–	12.9 lbs. 5.9 kg.	1
LP3030K	Piggyback Kit – Size 3030	2.50" 64mm	6.7" 170mm	8.3" 211mm	10.2" 261mm	12.9 lbs. 5.9 kg.	1
LP3030KP40	Piggyback Kit – Size 3030 (Bulk Packed)	2.50" 64mm	6.7" 170mm	8.3" 211mm	10.2" 261mm	12.9 lbs. 5.9 kg.	40
LP3030L	Piggyback – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	7.2" 183mm	8.3" 211mm	–	13.1 lbs. 5.9 kg.	1
LP3030LK	Piggyback Kit – Long Stroke – Size 3030 – Square Bosses	3.00" 76mm	7.2" 183mm	8.3" 211mm	10.2" 261mm	13.1 lbs. 5.9 kg.	1
LP3030LP40	Piggyback – Long Stroke – Size 3030 – Square Bosses (Bulk Packed)	3.00" 76mm	6.7" 170mm	8.3" 211mm	–	12.9 lbs. 5.9 kg.	40
LP3030P40	Piggyback – Size 3030 (Bulk Packed)	2.50" 64mm	6.7" 170mm	8.3" 211mm	–	12.9 lbs. 5.9 kg.	40

Service Chamber Brakes



**Air Port Threads
3/8-18 NPTF**

Features:

- Steel Pressure Housing
Powder coated with resistance welded air ports
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Sturdy Service Housing
Powder coated for corrosion resistance
Step bottom with 12 gauge steel, T20 and smaller
Flat bottom with 10 gauge steel, T24 and larger
- Orange Alert® Stroke Indicator
- Self-piloting Dust Shield
- Sizes to fit most drum brake applications

Specifications:

- A - Length from mounting bracket to end of Spring Housing
- D - Dimension at Service Clampingband
- E - Stud Spacing
3.00" (76.2mm) with 7/16-14 UNC studs; T9, T12 & T16
4.75" (120.7mm) with 5/8-11 UNC studs; T16L & larger
- J - Pushrod Length from face of Service Housing
1/2-20 UNF pushrod threads; T9, T12 & T16
5/8-18 UNF pushrod threads; T16L & larger
- K - Distance to Clevis Pin centerline from face of Service Housing
- S1 - Service Clampingband position (0°)
- T - Air Port position (90°)

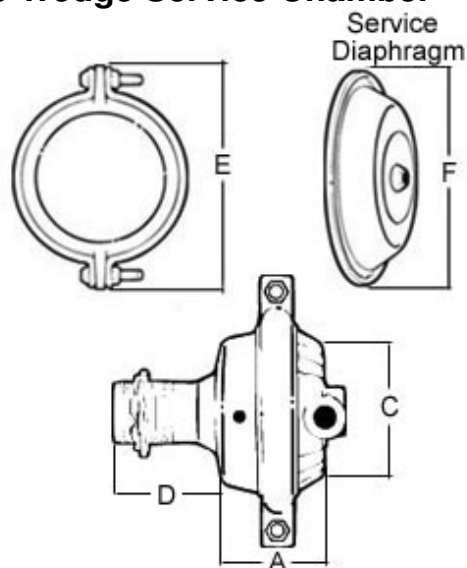
SKU#	Product Description	Avail. Stroke	A	D	E	J	K	T	S1	Wt. (each)	Qty.
SC09	Service Chamber - Size T09	1.75" 44mm	3.7" 94mm	7.2" 183mm	3.00" 76.2mm	10.43"	-	0°	135°	4.2 lbs. 1.9 kg.	2
SC12	Service Chamber - Size T12	1.75" 44mm	3.7" 94mm	7.6" 193mm	3.00" 76.2mm	10.41"	-	90°	45°	4.7 lbs. 2.1 kg.	2
SC16	Service Chamber - Size T16	2.25" 57mm	4.6" 117mm	8.2" 208mm	3.00" 76.2mm	9.52"	-	90°	45°	5.7 lbs. 2.6 kg.	2
SC16L	Service Chamber - Long Stroke - Size T16	2.50" 64mm	4.2" 107mm	7.2" 183mm	4.75" 120.7mm	10.00"	-	0°	0°	7.2 lbs. 3.3 kg.	1
SC20	Service Chamber - Size T20	2.25" 57mm	4.0" 102mm	8.6" 218mm	4.75" 120.7mm	10.15"	-	90°	45°	7.5 lbs. 3.4 kg.	2
SC20L	Service Chamber - Long Stroke - Size T20	2.50" 64mm	4.2" 107mm	8.6" 218mm	4.75" 120.7mm	10.00"	-	0°	0°	7.5 lbs. 3.4 kg.	1
SC20LCW	Service Chamber with Welded Clevis - Long Stroke - Size T20	2.50" 64mm	4.2" 107mm	6.8" 173mm	4.75" 120.7mm	1.00"	2.25"	0°	-	6.7 lbs. 3.0 kg.	2
SC20P40	Service Chamber - Size T20 (Bulk Packed)	2.25" 57mm	4.0" 102mm	8.6" 218mm	4.75" 120.7mm	10.15"	-	90°	45°	7.5 lbs. 3.4 kg.	40
SC24	Service Chamber - Size T24	2.25" 57mm	3.8" 97mm	9.1" 231mm	4.75" 120.7mm	10.23"	-	90°	45°	8.6 lbs. 3.9 kg.	2
SC24L	Service Chamber - Long Stroke - Size T24	2.50" 64mm	3.8" 97mm	9.1" 231mm	4.75" 120.7mm	9.47"	-	90°	45°	8.7 lbs. 3.9 kg.	2
SC24P40	Service Chamber - Size T24 (Bulk Packed)	2.25" 57mm	3.8" 97mm	9.1" 231mm	4.75" 120.7mm	10.23"	-	90°	45°	8.6 lbs. 3.9 kg.	40
SC24XL	Service Chamber - Extra Long Stroke - Size T24	3.00" 76mm	4.3" 109mm	9.1" 231mm	4.75" 120.7mm	10.00"	-	0°	0°	9.4 lbs. 4.3 kg.	1

Service Chamber Brakes

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SC24XLCW	Service Chamber with Welded Clevis – Extra Long Stroke – Size T24	3.00" 76mm	4.3" 109mm	7.2" 183mm	4.75" 120.7mm	1.00"	2.25"	0°	–	8.4 lbs. 3.8 kg.	2
SC30	Service Chamber – Size T30	2.50" 64mm	3.7" 94mm	10.0" 254mm	4.75" 120.7mm	10.34"	–	90°	0°	10.3 lbs. 4.7 kg.	2
SC30CW	Service Chamber with Welded Clevis – Size T30	2.50" 64mm	3.7" 94mm	10.0" 254mm	4.75" 120.7mm	1.00"	2.25"	90°	0°	10.3 lbs. 4.7 kg.	2
SC30L	Service Chamber – Long Stroke – Size T30	3.00" 76mm	4.2" 107mm	10.1" 257mm	4.75" 120.7mm	10.00"	–	0°	0°	10.7 lbs. 4.9 kg.	1
SC30LCW	Service Chamber with Welded Clevis – Long Stroke – Size T30	3.00" 76mm	4.2" 107mm	8.1" 206mm	4.75" 120.7mm	1.00"	2.25"	0°	–	9.7 lbs. 4.4 kg.	2
SC30P40	Service Chamber – Size T30 (Bulk Packed)	2.50" 64mm	3.7" 94mm	10.0" 254mm	4.75" 120.7mm	10.34"	–	90°	0°	10.3 lbs. 4.7 kg.	40
SC36	Service Chamber – Size T36	3.00" 76mm	4.2" 107mm	10.7" 272mm	4.75" 120.7mm	8.00"	–	90°	0°	12.5 lbs. 5.7 kg.	2

T09 Wedge Service Chamber



Features:

- Steel Pressure Housing
Powder coated with resistance welded air ports
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Sturdy Service Housing
Zinc plated for corrosion resistance
Tube threads 1.75-12 UN-2A
Jam Nut included

Specifications:

- A - Length of chamber to end of Pressure Housing
- C - Dimension at Pressure Housing
- D - Tube Length
- E - Dimension at Service Clampband
- F - Diameter of Diaphragm

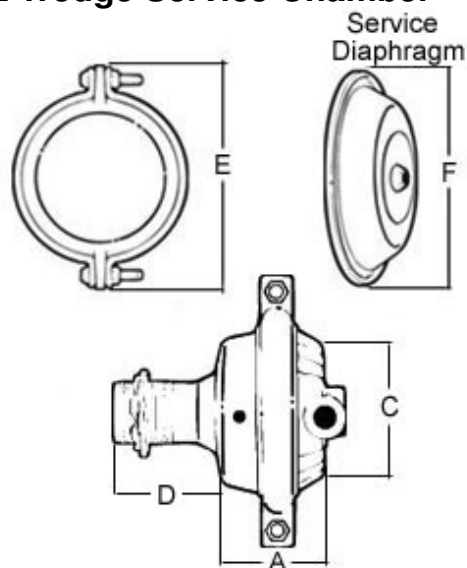
SKU#	Product Description	Design	Avail. Stroke	A	C	D	E	F	Wt. (each)	Qty.
0900002	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	2.25"	7.1" 180mm	5.0" 127mm	4.2 lbs. 1.9 kg.	2
0900003	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	2.25"	7.1" 180mm	5.0" 127mm	4.2 lbs. 1.9 kg.	2
0900004	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	3.00"	7.1" 180mm	5.0" 127mm	4.6 lbs. 2.1 kg.	2
0900005	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	3.00"	7.1" 180mm	5.0" 127mm	4.6 lbs. 2.1 kg.	2
0900006	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	3.50"	7.1" 180mm	5.0" 127mm	4.9 lbs. 2.2 kg.	2
0900007	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	4.00"	7.1" 180mm	5.0" 127mm	5.1 lbs. 2.3 kg.	2
0900008	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	3.50"	7.1" 180mm	5.0" 127mm	4.9 lbs. 2.2 kg.	2
0900009	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	9.38"	7.1" 180mm	5.0" 127mm	8.0 lbs. 3.6 kg.	2
0900010	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	4.00"	7.1" 180mm	5.0" 127mm	5.1 lbs. 2.3 kg.	2
0900011	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	4.50"	7.1" 180mm	5.0" 127mm	5.4 lbs. 2.4 kg.	2
0900012	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	5.00"	7.1" 180mm	5.0" 127mm	5.7 lbs. 2.6 kg.	2
0900013	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	6.00"	7.1" 180mm	5.0" 127mm	6.2 lbs. 2.8 kg.	2
0900014	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	7.00"	7.1" 180mm	5.0" 127mm	6.7 lbs. 3.0 kg.	2
0900015	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	7.88"	7.1" 180mm	5.0" 127mm	7.2 lbs. 3.3 kg.	2
0900016	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	9.38"	7.1" 180mm	5.0" 127mm	8.0 lbs. 3.6 kg.	2

Wedge Brakes

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0900017	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	10.20"	7.1" 180mm	5.0" 127mm	8.4 lbs. 3.8 kg.	2
0900018	Wedge Size 09	Bendix	1.75" 44mm	2.7" 69mm	3.3" 84mm	14.50"	7.1" 180mm	5.0" 127mm	10.7 lbs. 4.8 kg.	2
0900019	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	4.50"	7.1" 180mm	5.0" 127mm	5.4 lbs. 2.4 kg.	2
0900020	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	5.00"	7.1" 180mm	5.0" 127mm	5.7 lbs. 2.6 kg.	2
0900021	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	6.00"	7.1" 180mm	5.0" 127mm	6.2 lbs. 2.8 kg.	2
0900022	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	7.00"	7.1" 180mm	5.0" 127mm	6.7 lbs. 3.0 kg.	2
0900023	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	7.88"	7.1" 180mm	5.0" 127mm	7.2 lbs. 3.3 kg.	2
0900024	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	10.20"	7.1" 180mm	5.0" 127mm	8.4 lbs. 3.8 kg.	2
0900025	Wedge Size 09	Rockwell	1.75" 44mm	2.7" 69mm	3.3" 84mm	14.50"	7.1" 180mm	5.0" 127mm	10.7 lbs. 4.8 kg.	2

T12 Wedge Service Chamber



Features:

- Steel Pressure Housing
Powder coated with resistance welded air ports
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Sturdy Service Housing
Zinc plated for corrosion resistance
Tube threads 1.75-12 UN-2A
Jam Nut included

Specifications:

- A - Length of chamber to end of Pressure Housing
- C - Dimension at Pressure Housing
- D - Tube Length
- E - Dimension at Service Clampband
- F - Diameter of Diaphragm

Air Port Threads: 3/8-18 NPTF

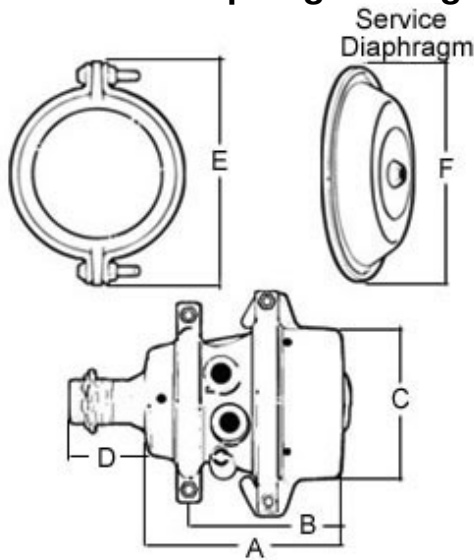
SKU#	Product Description	Design	Avail. Stroke	A	C	D	E	F	Wt. (each)	Qty.
1200004	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	2.25"	7.6" 193mm	5.5" 140mm	4.5 lbs. 2.0 kg.	2
1200005	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	2.25"	7.6" 193mm	5.5" 140mm	4.5 lbs. 2.0 kg.	2
1200008	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	3.00"	7.6" 193mm	5.5" 140mm	4.9 lbs. 2.2 kg.	2
1200009	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	3.00"	7.6" 193mm	5.5" 140mm	4.9 lbs. 2.2 kg.	2
1200011	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	3.50"	7.6" 193mm	5.5" 140mm	5.2 lbs. 2.3 kg.	2
1200012	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	3.50"	7.6" 193mm	5.5" 140mm	5.2 lbs. 2.3 kg.	2
1200013	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	4.00"	7.6" 193mm	5.5" 140mm	5.4 lbs. 2.5 kg.	2
1200014	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	4.00"	7.6" 193mm	5.5" 140mm	5.4 lbs. 2.5 kg.	2
1200015	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	4.50"	7.6" 193mm	5.5" 140mm	5.7 lbs. 2.6 kg.	2
1200016	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	4.50"	7.6" 193mm	5.5" 140mm	5.7 lbs. 2.6 kg.	2
1200018	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	6.00"	7.6" 193mm	5.5" 140mm	6.5 lbs. 2.9 kg.	2
1200019	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	7.88"	7.6" 193mm	5.5" 140mm	7.5 lbs. 3.4 kg.	2
1200020	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	9.38"	7.6" 193mm	5.5" 140mm	8.3 lbs. 3.7 kg.	2
1200022	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	5.00"	7.6" 193mm	5.5" 140mm	6.0 lbs. 2.7 kg.	2
1200023	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	7.00"	7.6" 193mm	5.5" 140mm	7.0 lbs. 3.2 kg.	2

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1200024	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	10.20"	7.6" 193mm	5.5" 140mm	8.7 lbs. 3.9 kg.	2
1200025	Wedge Size 12	Rockwell	1.75" 44mm	2.7" 69mm	4.1" 104mm	14.50"	7.6" 193mm	5.5" 140mm	11.0 lbs. 5.0 kg.	2
1200026	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	5.00"	7.6" 193mm	5.5" 140mm	6.0 lbs. 2.7 kg.	2
1200027	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	6.00"	7.6" 193mm	5.5" 140mm	6.5 lbs. 2.9 kg.	2
1200028	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	7.00"	7.6" 193mm	5.5" 140mm	7.0 lbs. 3.2 kg.	2
1200029	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	7.88"	7.6" 193mm	5.5" 140mm	7.5 lbs. 3.4 kg.	2
1200030	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	9.38"	7.6" 193mm	5.5" 140mm	8.3 lbs. 3.7 kg.	2
1200031	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	10.20"	7.6" 193mm	5.5" 140mm	8.7 lbs. 3.9 kg.	2
1200032	Wedge Size 12	Bendix	1.75" 44mm	2.7" 69mm	4.1" 104mm	14.50"	7.6" 193mm	5.5" 140mm	11.0 lbs. 5.0 kg.	2

09/12 Double Diaphragm Wedge Combo



Features:

- Lightweight Die-Cast Aluminum Design
Integral safety hooks in spring housing
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Sturdy Service Housing
Zinc plated for corrosion resistance
Tube threads 1.75-12 UN-2A
Jam Nut included

Specifications:

- A - Length of chamber to end of Spring Housing
- B - Length of Piggyback
- C - Dimension at Spring Housing
- D - Tube Length
- E - Dimension at Service Clampband
- F - Diameter of Diaphragm (Service/Spring side)

Air Port Threads: 3/8-18 NPTF

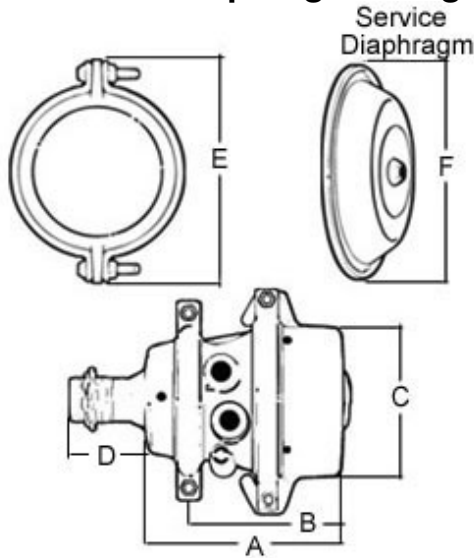
SKU#	Product Description	Design	Avail. Stroke	A	B	C	D	E	F	Wt. (each)	Qty.
0912003	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	2.25"	7.8" 198mm	5.1/5.5" 130/140mm	8.9 lbs. 4.03 kg.	2
0912005	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	3.00"	7.8" 198mm	5.1/5.5" 130/140mm	9.3 lbs. 4.2 kg.	2
0912006	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	3.00"	7.8" 198mm	5.1/5.5" 130/140mm	9.3 lbs. 4.2 kg.	2
0912007	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	4.00"	7.8" 198mm	5.1/5.5" 130/140mm	9.8 lbs. 4.5 kg.	2
0912008	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	2.25"	7.8" 198mm	5.1/5.5" 130/140mm	8.9 lbs. 4.0 kg.	2
0912009	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	3.50"	7.8" 198mm	5.1/5.5" 130/140mm	9.6 lbs. 4.3 kg.	2
0912010	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	4.50"	7.8" 198mm	5.1/5.5" 130/140mm	10.1 lbs. 4.6 kg.	2
0912011	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	5.00"	7.8" 198mm	5.1/5.5" 130/140mm	10.4 lbs. 4.7 kg.	2
0912012	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	6.00"	7.8" 198mm	5.1/5.5" 130/140mm	10.9 lbs. 4.9 kg.	2
0912013	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	7.00"	7.8" 198mm	5.1/5.5" 130/140mm	11.4 lbs. 5.2 kg.	2
0912014	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	7.88"	7.8" 198mm	5.1/5.5" 130/140mm	11.9 lbs. 5.4 kg.	2
0912015	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	9.38"	7.8" 198mm	5.1/5.5" 130/140mm	12.7 lbs. 5.7 kg.	2
0912016	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	10.20"	7.8" 198mm	5.1/5.5" 130/140mm	13.1 lbs. 5.9 kg.	2
0912017	09/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	14.50"	7.8" 198mm	5.1/5.5" 130/140mm	15.4 lbs. 7.0 kg.	2
0912018	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	3.50"	7.8" 198mm	5.1/5.5" 130/140mm	9.6 lbs. 4.3 kg.	2

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0912019	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	4.00"	7.8" 198mm	5.1/5.5" 130/140mm	9.8 lbs. 4.5 kg.	2
0912020	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	4.50"	7.8" 198mm	5.1/5.5" 130/140mm	10.1 lbs. 4.6 kg.	2
0912021	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	5.00"	7.8" 198mm	5.1/5.5" 130/140mm	10.4 lbs. 4.7 kg.	2
0912022	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	6.00"	7.8" 198mm	5.1/5.5" 130/140mm	10.9 lbs. 4.9 kg.	2
0912023	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	7.00"	7.8" 198mm	5.1/5.5" 130/140mm	11.4 lbs. 5.2 kg.	2
0912024	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	7.88"	7.8" 198mm	5.1/5.5" 130/140mm	11.9 lbs. 5.4 kg.	2
0912025	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	9.38"	7.8" 198mm	5.1/5.5" 130/140mm	12.7 lbs. 5.7 kg.	2
0912026	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	10.20"	7.8" 198mm	5.1/5.5" 130/140mm	13.1 lbs. 5.9 kg.	2
0912027	09/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.0" 127mm	4.8" 122mm	14.50"	7.8" 198mm	5.1/5.5" 130/140mm	15.4 lbs. 7.0 kg.	2

09/16 Double Diaphragm Wedge Combo



Features:

- Lightweight Die-Cast Aluminum Design
Integral safety hooks in spring housing
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Sturdy Service Housing
Zinc plated for corrosion resistance
Tube threads 1.75-12 UN-2A
Jam Nut included

Specifications:

- A - Length of chamber to end of Spring Housing
- B - Length of Piggyback
- C - Dimension at Spring Housing
- D - Tube Length
- E - Dimension at Service Clampband
- F - Diameter of Diaphragm (Service/Spring side)

Air Port Threads: 3/8-18 NPTF

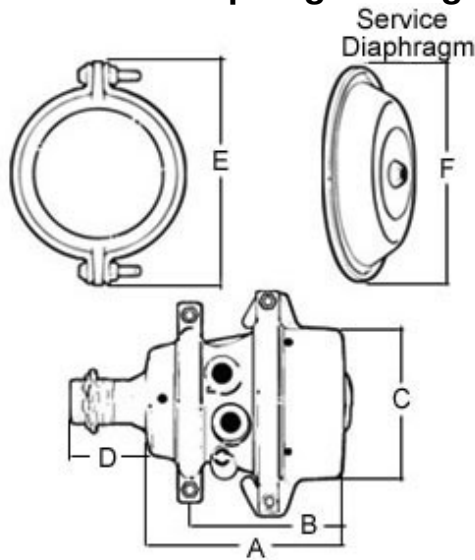
SKU#	Product Description	Design	Avail. Stroke	A	B	C	D	E	F	Wt. (each)	Qty.
0916003	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	2.25"	8.4" 213mm	5.1/6.1" 130/155mm	12.0 lbs. 5.4 kg.	2
0916004	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	3.00"	8.4" 213mm	5.1/6.1" 130/155mm	12.4 lbs. 5.6 kg.	2
0916005	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	3.50"	8.4" 213mm	5.1/6.1" 130/155mm	12.7 lbs. 5.7 kg.	2
0916006	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	4.00"	8.4" 213mm	5.1/6.1" 130/155mm	12.9 lbs. 5.9 kg.	2
0916007	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	4.50"	8.4" 213mm	5.1/6.1" 130/155mm	13.2 lbs. 6.0 kg.	2
0916008	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	5.00"	8.4" 213mm	5.1/6.1" 130/155mm	13.5 lbs. 6.1 kg.	2
0916009	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	6.00"	8.4" 213mm	5.1/6.1" 130/155mm	14.0 lbs. 6.3 kg.	2
0916010	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	7.00"	8.4" 213mm	5.1/6.1" 130/155mm	14.5 lbs. 6.6 kg.	2
0916011	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	7.88"	8.4" 213mm	5.1/6.1" 130/155mm	15.0 lbs. 6.8 kg.	2
0916012	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	9.38"	8.4" 213mm	5.1/6.1" 130/155mm	15.8 lbs. 7.2 kg.	2
0916013	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	10.20"	8.4" 213mm	5.1/6.1" 130/155mm	16.2 lbs. 7.3 kg.	2
0916014	09/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	14.50"	8.4" 213mm	5.1/6.1" 130/155mm	18.5 lbs. 8.4 kg.	2
0916015	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	2.25"	8.4" 213mm	5.1/6.1" 130/155mm	12.0 lbs. 5.4 kg.	2
0916016	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	3.00"	8.4" 213mm	5.1/6.1" 130/155mm	12.4 lbs. 5.6 kg.	2
0916017	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	3.50"	8.4" 213mm	5.1/6.1" 130/155mm	12.7 lbs. 5.7 kg.	2

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0916018	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	4.00"	8.4" 213mm	5.1/6.1" 130/155mm	12.9 lbs. 5.9 kg.	2
0916019	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	4.50"	8.4" 213mm	5.1/6.1" 130/155mm	13.2 lbs. 6.0 kg.	2
0916020	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	5.00"	8.4" 213mm	5.1/6.1" 130/155mm	13.5 lbs. 6.1 kg.	2
0916021	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	6.00"	8.4" 213mm	5.1/6.1" 130/155mm	14.0 lbs. 6.3 kg.	2
0916022	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	7.00"	8.4" 213mm	5.1/6.1" 130/155mm	14.5 lbs. 6.6 kg.	2
0916023	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	7.88"	8.4" 213mm	5.1/6.1" 130/155mm	15.0 lbs. 6.8 kg.	2
0916024	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	9.38"	8.4" 213mm	5.1/6.1" 130/155mm	15.8 lbs. 7.2 kg.	2
0916025	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	10.20"	8.4" 213mm	5.1/6.1" 130/155mm	16.2 lbs. 7.3 kg.	2
0916026	09/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.4" 163mm	5.7" 145mm	5.7" 145mm	14.50"	8.4" 213mm	5.1/6.1" 130/155mm	18.5 lbs. 8.4 kg.	2

12/12 Double Diaphragm Wedge Combo



Features:

- Lightweight Die-Cast Aluminum Design
Integral safety hooks in spring housing
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Sturdy Service Housing
Zinc plated for corrosion resistance
Tube threads 1.75-12 UN-2A
Jam Nut included

Specifications:

- A - Length of chamber to end of Spring Housing
- B - Length of Piggyback
- C - Dimension at Spring Housing
- D - Tube Length
- E - Dimension at Service Clampband
- F - Diameter of Diaphragm (Service/Spring side)

Air Port Threads: 3/8-18 NPTF

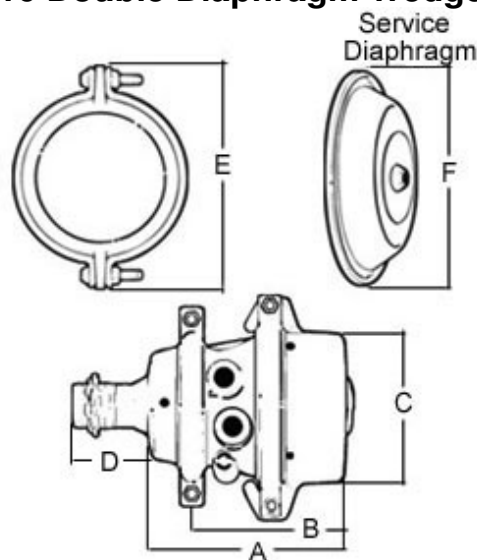
SKU#	Product Description	Design	Avail. Stroke	A	B	C	D	E	F	Wt. (each)	Qty.
1212002	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	2.25"	7.8" 198mm	5.5" 140mm	9.3 lbs. 4.2 kg.	2
1212003	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	2.25"	7.8" 198mm	5.5" 140mm	9.3 lbs. 4.2 kg.	2
1212006	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	3.00"	7.8" 198mm	5.5" 140mm	9.7 lbs. 4.4 kg.	2
1212007	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	3.00"	7.8" 198mm	5.5" 140mm	9.7 lbs. 4.4 kg.	2
1212008	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	3.50"	7.8" 198mm	5.5" 140mm	10.0 lbs. 4.5 kg.	2
1212009	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	4.00"	7.8" 198mm	5.5" 140mm	10.2 lbs. 4.6 kg.	2
1212010	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	4.00"	7.8" 198mm	5.5" 140mm	10.2 lbs. 4.6 kg.	2
1212011	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	5.00"	7.8" 198mm	5.5" 140mm	10.8 lbs. 4.9 kg.	2
1212012	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	6.00"	7.8" 198mm	5.5" 140mm	11.3 lbs. 5.1 kg.	2
1212014	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	9.38"	7.8" 198mm	5.5" 140mm	13.1 lbs. 5.9 kg.	2
1212016	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	4.50"	7.8" 198mm	5.5" 140mm	10.5 lbs. 4.8 kg.	2
1212017	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	7.00"	7.8" 198mm	5.5" 140mm	11.8 lbs. 5.4 kg.	2
1212018	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	7.88"	7.8" 198mm	5.5" 140mm	12.3 lbs. 5.6 kg.	2
1212019	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	10.20"	7.8" 198mm	5.5" 140mm	13.5 lbs. 6.1 kg.	2
1212020	12/12 Double Diaphragm Wedge	Rockwell	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	14.50"	7.8" 198mm	5.5" 140mm	15.8 lbs. 7.2 kg.	2

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1212021	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	3.50"	7.8" 198mm	5.5" 140mm	10.0 lbs. 4.5 kg.	2
1212022	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	4.50"	7.8" 198mm	5.5" 140mm	10.5 lbs. 4.8 kg.	2
1212023	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	5.00"	7.8" 198mm	5.5" 140mm	10.8 lbs. 4.9 kg.	2
1212024	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	6.00"	7.8" 198mm	5.5" 140mm	11.3 lbs. 5.1 kg.	2
1212025	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	7.00"	7.8" 198mm	5.5" 140mm	11.8 lbs. 5.4 kg.	2
1212026	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	7.88"	7.8" 198mm	5.5" 140mm	12.3 lbs. 5.6 kg.	2
1212027	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	9.38"	7.8" 198mm	5.5" 140mm	13.1 lbs. 5.9 kg.	2
1212028	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	10.20"	7.8" 198mm	5.5" 140mm	13.5 lbs. 6.1 kg.	2
1212029	12/12 Double Diaphragm Wedge	Bendix	1.75" 44mm	6.5" 165mm	5.0" 127mm	4.8" 122mm	14.50"	7.8" 198mm	5.5" 140mm	15.8 lbs. 7.2 kg.	2

12/16 Double Diaphragm Wedge Combo



Features:

- Lightweight Die-Cast Aluminum Design
Integral safety hooks in spring housing
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Sturdy Service Housing
Zinc plated for corrosion resistance
Tube threads 1.75-12 UN-2A
Jam Nut included

Specifications:

- A - Length of chamber to end of Spring Housing
- B - Length of Piggyback
- C - Dimension at Spring Housing
- D - Tube Length
- E - Dimension at Service Clampband
- F - Diameter of Diaphragm (Service/Spring side)

Air Port Threads: 3/8-18 NPTF

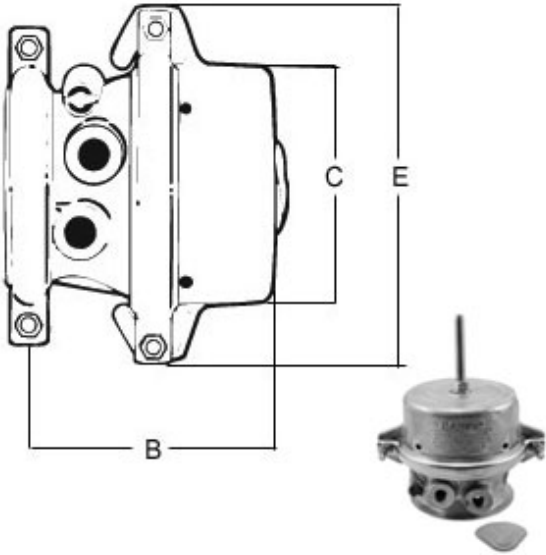
SKU#	Product Description	Design	Avail. Stroke	A	B	C	D	E	F	Wt. (each)	Qty.
1216003	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	2.25"	8.4" 213mm	5.5/6.1" 140/155mm	12.3 lbs. 5.6 kg.	2
1216004	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	2.25"	8.4" 213mm	5.5/6.1" 140/155mm	12.3 lbs. 5.6 kg.	2
1216006	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	3.00"	8.4" 213mm	5.5/6.1" 140/155mm	12.7 lbs. 5.8 kg.	2
1216007	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	3.00"	8.4" 213mm	5.5/6.1" 140/155mm	12.7 lbs. 5.8 kg.	2
1216008	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	3.50"	8.4" 213mm	5.5/6.1" 140/155mm	13.0 lbs. 5.9 kg.	2
1216009	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	4.00"	8.4" 213mm	5.5/6.1" 140/155mm	13.2 lbs. 6.0 kg.	2
1216010	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	5.00"	8.4" 213mm	5.5/6.1" 140/155mm	13.8 lbs. 6.2 kg.	2
1216011	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	9.38"	8.4" 213mm	5.5/6.1" 140/155mm	16.1 lbs. 7.3 kg.	2
1216013	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	4.00"	8.4" 213mm	5.5/6.1" 140/155mm	13.2 lbs. 6.0 kg.	2
1216014	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	4.50"	8.4" 213mm	5.5/6.1" 140/155mm	13.5 lbs. 6.1 kg.	2
1216015	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	6.00"	8.4" 213mm	5.5/6.1" 140/155mm	14.3 lbs. 6.5 kg.	2
1216016	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	7.00"	8.4" 213mm	5.5/6.1" 140/155mm	14.8 lbs. 6.7 kg.	2
1216017	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	7.88"	8.4" 213mm	5.5/6.1" 140/155mm	15.3 lbs. 6.9 kg.	2
1216018	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	10.20"	8.4" 213mm	5.5/6.1" 140/155mm	16.5 lbs. 7.5 kg.	2
1216019	12/16 Double Diaphragm Wedge	Rockwell	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	14.50"	8.4" 213mm	5.5/6.1" 140/155mm	18.8 lbs. 8.5 kg.	2

Wedge Brakes

03-ACTUATORS

1216020	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	3.50"	8.4" 213mm	5.5/6.1" 140/155mm	13.0 lbs. 5.9 kg.	2
1216021	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	4.50"	8.4" 213mm	5.5/6.1" 140/155mm	13.5 lbs. 6.1 kg.	2
1216022	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	5.00"	8.4" 213mm	5.5/6.1" 140/155mm	13.8 lbs. 6.2 kg.	2
1216023	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	6.00"	8.4" 213mm	5.5/6.1" 140/155mm	14.3 lbs. 6.5 kg.	2
1216024	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	7.00"	8.4" 213mm	5.5/6.1" 140/155mm	14.8 lbs. 6.7 kg.	2
1216025	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	7.88"	8.4" 213mm	5.5/6.1" 140/155mm	15.3 lbs. 6.9 kg.	2
1216026	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	9.38"	8.4" 213mm	5.5/6.1" 140/155mm	16.1 lbs. 7.3 kg.	2
1216027	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	10.20"	8.4" 213mm	5.5/6.1" 140/155mm	16.5 lbs. 7.5 kg.	2
1216028	12/16 Double Diaphragm Wedge	Bendix	1.75" 44mm	7.2" 183mm	5.7" 145mm	5.7" 145mm	14.50"	8.4" 213mm	5.5/6.1" 140/155mm	18.8 lbs. 8.5 kg.	2

Wedge Piggyback Replacements



Features:

- Lightweight Die-Cast Aluminum Design
Integral safety hooks in spring housing
- World Class Diaphragm
High quality rubber compound, resistant to heat and cold
Superior flexibility even at -40°F
- Save time and money
Piggybacks are simple to install

Specifications:

- B - Length of Piggyback
- C - Dimension at Spring Housing
- E - Dimension at Safety Hooks

Air Port Threads: 3/8-18 NPTF

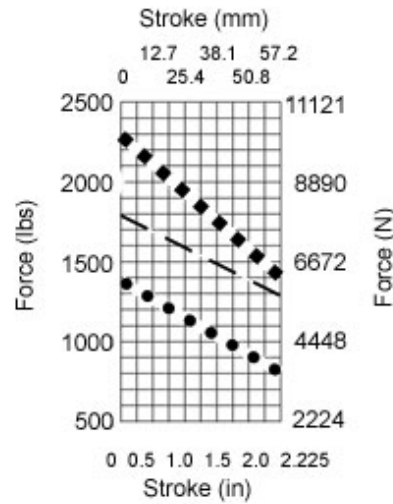
SKU#	Product Description	Avail. Stroke	B	C	E	Wt. (each)	Qty.
0912001	Piggyback Size 0912	1.75" 44mm	4.9" 124mm	4.8" 122mm	7.8" 198mm	5.4 lbs. 2.4 kg.	2
0916001	Piggyback Size 0916	1.75" 44mm	5.7" 145mm	5.7" 145mm	8.4" 213mm	8.5 lbs. 3.9 kg.	2
1212015	Piggyback Size 1212	1.75" 44mm	5.0" 127mm	4.8" 122mm	7.8" 198mm	5.7 lbs. 2.6 kg.	2
1216012	Piggyback Size 1216	1.75" 44mm	5.7" 145mm	5.7" 145mm	8.4" 213mm	8.7 lbs. 3.9 kg.	2

MAXIBRAKE® I-Series Spring Brakes

Type 20 MAXIBRAKE® I Series Spring Brake



MAXIBRAKE® I
Spring Chamber Performance



- ■ ■ = #75 Spring
- — — = #60 Spring
- ● ● = #50 Spring

Features:

- All steel housings provide strength, durability and extra corrosion resistance.
- Aluminum piston and nylon bearing provide maximum guidance stability that diffuses lateral and twisting motion.
- Steel alloy springs are epoxy coated to protect against rust and corrosion.
- Deeper spring cavities and optional spring force outputs offer uniform output and longer service life.
- Unit cannot be released manually, making it inoperative. This insures the vehicle cannot be moved until the air supply is at a safe level.
- Complete spring brake units available with #50, #60 or #75 springs.

Notes:

- 1) Single Pack – 1 per Box.
- 2) Replacement Parts listed later in this section.

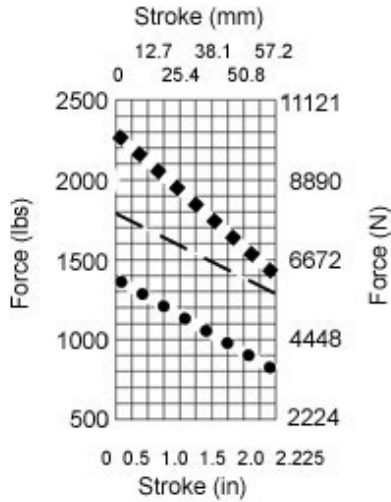
SKU#	Product Description	Spring	Push Rod	OEM Part Number	Core Group
MA15770	MAXIBRAKE® 2050 Universal Spring Brake – I Series 20"	50#	Universal 8"	KSM2050KC800NN	–
MA15771	MAXIBRAKE® 2060 Universal Spring Brake – I Series 20"	60#	Universal 8"	KSM2060KC800NN	–
MA15771X	Remanufactured MAXIBRAKE® 2060 Universal Spring Brake – I Series 20"	60#	Universal 8"	KSM2060KC800NN	MX020
MA15772	MAXIBRAKE® 2075 Universal Spring Brake – I Series 20"	75#	Universal 8"	KSM2075KC800NN	–

MAXIBRAKE® I-Series Spring Brakes

Type 24 MAXIBRAKE® I Series Spring Brake



MAXIBRAKE® I
Spring Chamber Performance



- ■ ■ = #75 Spring
- — — = #60 Spring
- ● ● = #50 Spring

Features:

- All steel housing provide strength, durability and extra corrosion resistance.
- Aluminum piston and nylon bearing provide maximum guidance stability that diffuses lateral and twisting motion.
- Steel alloy springs are epoxy coated to protect against rust and corrosion.
- Deeper spring cavities and optional spring force outputs offer uniform output and longer service life.
- Unit cannot be released manually, making it inoperative. This insures the vehicle cannot be moved until the air supply is at a safe level.
- Complete spring brake units available with #50, #60 or #75 springs.

Notes:

- 1) Single Pack – 1 per Box.
- 2) Replacement Parts listed later in this section.

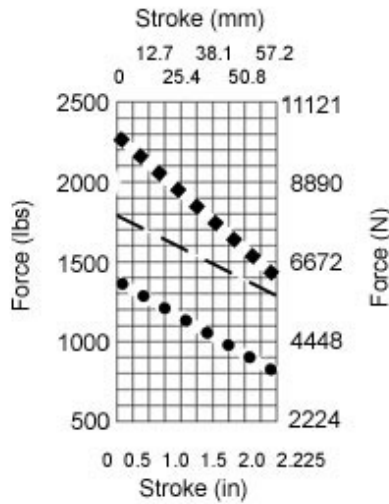
SKU#	Product Description	Spring	Push Rod	OEM Part Number	Core Group
MA15773	MAXIBRAKE® 2450 Universal Spring Brake – I Series 24"	50#	Universal 8"	KSM2450KC800NN	–
MA15774	MAXIBRAKE® 2460 Universal Spring Brake – I Series	60#	Universal 8"	KSM2460KC800NN	–
MA15774X	Remanufactured MAXIBRAKE® 2460 Universal Spring Brake – I Series 24"	60#	Universal 8"	KSM2460KC800NN	MX024
MA15775	MAXIBRAKE® 2475 Universal Spring Brake – I Series 24"	75#	Universal 8"	KSM2475KC800NN	–
MA15775X	Remanufactured MAXIBRAKE® 2475 Universal Spring Brake – I Series 24"	75#	Universal 8"	KSM2475KC800NN	MX024

MAXIBRAKE® I-Series Spring Brakes

Type 30 MAXIBRAKE® I Series Spring Brake



MAXIBRAKE® I
Spring Chamber Performance



- ■ ■ = #75 Spring
- — — = #60 Spring
- ● ● = #50 Spring

Features:

- All steel housing provide strength, durability and extra corrosion resistance.
- Aluminum piston and nylon bearing provide maximum guidance stability that diffuses lateral and twisting motion.
- Steel alloy springs are epoxy coated to protect against rust and corrosion.
- Deeper spring cavities and optional spring force outputs offer uniform output and longer service life.
- Unit cannot be released manually, making it inoperative. This insures the vehicle cannot be moved until the air supply is at a safe level.
- Complete spring brake units available with #50, #60 or #75 springs.

Notes:

- 1) Single Pack – 1 per Box.
- 2) Replacement Parts listed later in this section.

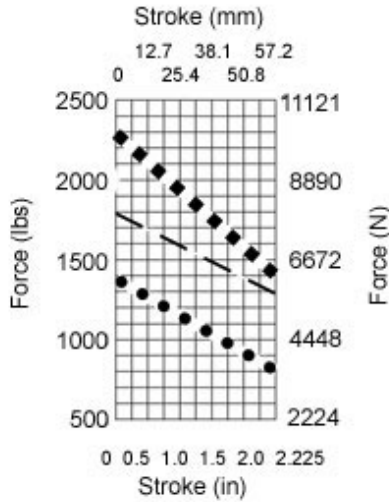
SKU#	Product Description	Spring	Push Rod	OEM Part Number	Core Group
MA15776	MAXIBRAKE® 3060 Universal Spring Brake – I Series 30"	60#	Universal 8"	KSM3060KC800NN	–
MA15776X	Remanufactured MAXIBRAKE® 3060 Universal Spring Brake – I Series 30"	60#	Universal 8"	KSM3060KC800NN	MX030
MA15777	MAXIBRAKE® 3075 Universal Spring Brake – I Series 30"	75#	Universal 8"	KSM3075KC800NN	–
MA15777X	Remanufactured MAXIBRAKE® 3075 Universal Spring Brake – I Series 30"	75#	Universal 8"	KSM3075KC800NN	MX030
MA46141X	Remanufactured MAXIBRAKE® I Series 30" Spring Brake	60#, Boot	9.34–9.63"	KSM3060JCS46141	MX030

MAXIBRAKE® I-Series Spring Brakes

Type 36 MAXIBRAKE® I Series Spring Brake



MAXIBRAKE® I
Spring Chamber Performance



- ■ ■ = #75 Spring
- — — = #60 Spring
- ● ● = #50 Spring

Features:

- All steel housing provide strength, durability and extra corrosion resistance.
- Aluminum piston and nylon bearing provide maximum guidance stability that diffuses lateral and twisting motion.
- Steel alloy springs are epoxy coated to protect against rust and corrosion.
- Deeper spring cavities and optional spring force outputs offer uniform output and longer service life.
- Unit cannot be released manually, making it inoperative. This insures the vehicle cannot be moved until the air supply is at a safe level.
- Complete spring brake units available with #50, #60 or #75 springs.

Notes:

- 1) Single Pack – 1 per Box.
- 2) Replacement Parts listed later in this section.

SKU#	Product Description	Spring	Push Rod	OEM Part Number	Core Group
MA15778	MAXIBRAKE® 3660 Universal Spring Brake – I Series 36"	60#	Universal 8"	KSM3660KC800NN	–
MA15778X	Remanufactured MAXIBRAKE® 3660 Spring Brake – I Series 36"	60#	Universal 8"	KSM3660KC800NN	MX036
MA15779	MAXIBRAKE® 3675 Universal Spring Brake – I Series 36"	75#	Universal 8"	KSM3675KC800NN	–
MA15779X	Remanufactured MAXIBRAKE® 3675 Universal Spring Brake – I Series 36"	75#	Universal 8"	KSM3675KC800NN	MX036

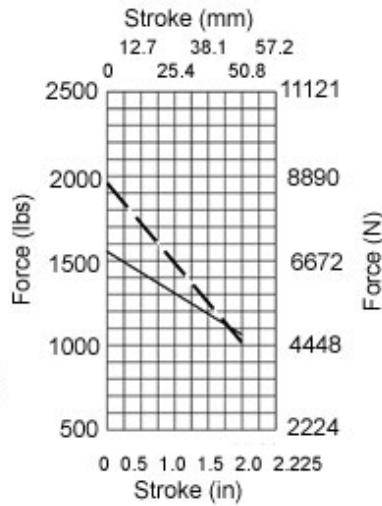
MAXIBRAKE® H-Series Spring Brakes

MAXIBRAKE® H-SERIES

Spring Chamber Performance



--- = Hydraulic Unit (KSH101E)
 — = Air Unit (KSH202C)



Features:

- All steel housing provide strength, durability and extra corrosion resistance.
- Steel piston and nylon bearings provide maximum guidance stability that diffuses lateral and twisting motion.
- Steel alloy springs are epoxy coated to protect against rust and corrosion.
- Deeper spring cavities and optional spring force outputs offer uniform output and longer service life.
- The Maxibrake® H-Series Air and Hydraulic Spring-Set Parking Brake release mechanisms are housed inside the unit making them readily available for use.
- Stamped steel piston with 360° heavy duty plastic bushing and O-Ring seal.

Notes:

- 1) Single Pack – 1 per Box.
- 2) Replacement Parts listed later in this section.

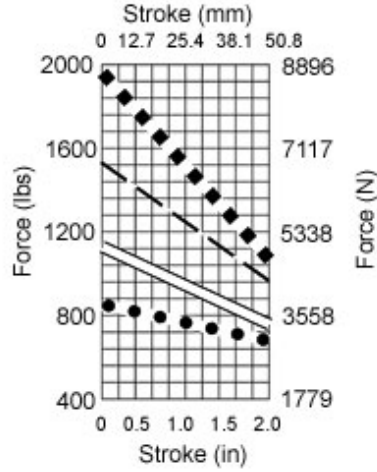
SKU#	Product Description	Notes	OEM Part Number	Core Group
MA15500	MAXIBRAKE® H-Series Hydraulic Spring-Set Parking Brake	Complete Unit	KSH101E	-
MA15500X	Remanufactured MAXIBRAKE® H-Series Hydraulic Spring-Set Parking Brake	Complete Unit	KSH101E	MX101
MA15502	MAXIBRAKE® H-Series Hydraulic Spring-Set Parking Brake	Complete Unit with optional Fluid Inlet Elbow	KSH101F	-
MA15502X	Remanufactured MAXIBRAKE® H-Series Hydraulic Spring-Set Parking Brake	Complete Unit with optional Fluid Inlet Elbow	KSH101F	MX101
MA15504	MAXIBRAKE® H-Series Air Spring-Set Parking Brake	Complete Unit with 3/8" NPT Air Inlet	KSH202C	-
MA15504X	Remanufactured MAXIBRAKE® H-Series Air Spring-Set Parking Brake	Complete Unit with 3/8" NPT Air Inlet	KSH202C	MX202

MAXIBRAKE® HR-Series Spring Brake



MAXIBRAKE® HR-SERIES

Spring Chamber Performance



- ■ ■ = Spring 01
- - - = Spring 02
- ● ● = Spring 03
- — — = Spring 04

Features:

- All steel housing provide strength, durability and extra corrosion resistance.
- Steel piston and nylon bearings provide maximum guidance stability that diffuses lateral and twisting motion.
- Steel alloy springs are epoxy coated to protect against rust and corrosion.
- Deeper spring cavities and optional spring force outputs offer uniform output and longer service life.
- Unit cannot be released manually, making it inoperative. This insures the vehicle cannot be moved until the air supply is at a safe level.

Notes:

- 1) Single Pack – 1 per Box.
- 2) Replacement Parts listed later in this section.

SKU#	Product Description	Spring	OEM Part Number
MA15509	MAXIBRAKE® HR-Series Spring Brake – Pull Type – Hydraulic (850 lbs.)	04	KSHR2PT04H00022

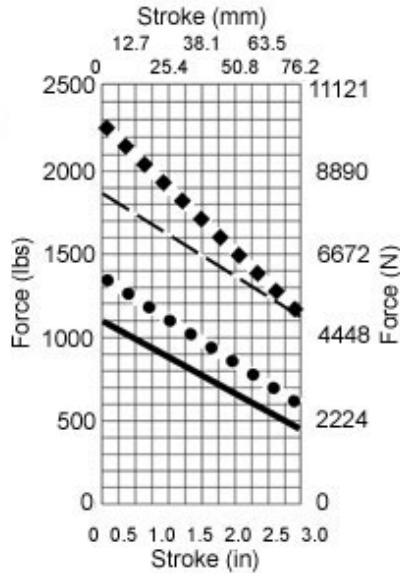
MAXIBRAKE® R-Series Spring Brake

MAXIBRAKE® R-Series Pull Type Spring Brakes



- ■ ■ = #75 Spring
- — — = #60 Spring
- ● ● = #50 Spring
- — — = #40 Spring

MAXIBRAKE® R-SERIES
Spring Chamber Performance



Features:

- All steel housing provide strength, durability and extra corrosion resistance.
- Steel piston and nylon bearings provide maximum guidance stability that diffuses lateral and twisting motion.
- Steel alloy springs are epoxy coated to protect against rust and corrosion.
- Deeper spring cavities and optional spring force outputs offer uniform output and longer service life.
- Unit cannot be released manually, making it inoperative. This insures the vehicle cannot be moved until the air supply is at a safe level.

Specifications:

Maximum Air Pressure 125 PSI

Notes:

- 1) Single Pack – 1 per Box.
- 2) Mounting Hardware not included.
- 3) Replacement Parts listed later in this section.

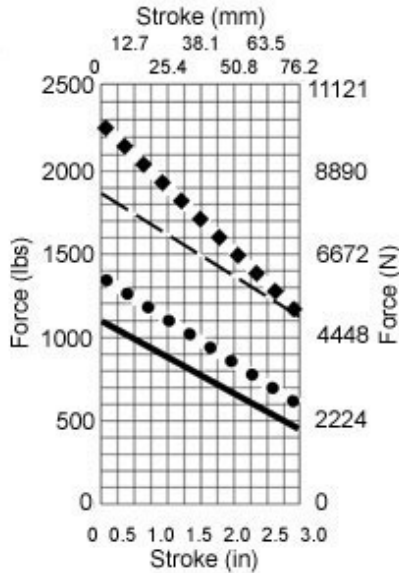
SKU#	Product Description	Stroke	Spring	Push Rod	OEM Part Number
MA15650	MAXIBRAKE® R-Series – Air Application – Pull Type	1.38"	#40	8"	KSMR0PT40-800NN
MA15652	MAXIBRAKE® R-Series – Air Application – Pull Type	1.38"	#60	8"	KSMR0PT60-800NN
MA15654	MAXIBRAKE® R-Series – Air Application – Pull Type	2.25"	#40	8"	KSMR1PT40-800NN
MA15655	MAXIBRAKE® R-Series – Air Application – Pull Type	2.25"	#50	8"	KSMR1PT50-800NN
MA15656	MAXIBRAKE® R-Series – Air Application – Pull Type	2.25"	#60	8"	KSMR1PT60-800NN
MA15657	MAXIBRAKE® R-Series – Air Application – Pull Type	2.25"	#75	8"	KSMR1PT75-800NN
MA15659	MAXIBRAKE® R-Series – Air Application – Pull Type	2.62"	#50	8"	KSMR2PT50-800NN
MA15660	MAXIBRAKE® R-Series – Air Application – Pull Type	2.62"	#60	8"	KSMR2PT60-800NN
MA15661	MAXIBRAKE® R-Series – Air Application – Pull Type	2.62"	#75	8"	KSMR2PT75-800NN
MA15662	MAXIBRAKE® R-Series – Air Application – Pull Type	3.00"	#40	8"	KSMR3PT40-800NN
MA15663	MAXIBRAKE® R-Series – Air Application – Pull Type	3.00"	#50	8"	KSMR3PT50-800NN
MA15664	MAXIBRAKE® R-Series – Air Application – Pull Type	3.00"	#60	8"	KSMR3PT60-800NN
MA15665	MAXIBRAKE® R-Series – Air Application – Pull Type	3.00"	#75	8"	KSMR3PT75-800NN
MA15666	MAXIBRAKE® R-Series – Air Application – Pull Type	3.00"	#60	8"	KSMR3PT60-800YB

MAXIBRAKE® R-Series Spring Brake

MAXIBRAKE® R-Series Push Type Spring Brake



MAXIBRAKE® R-SERIES
Spring Chamber Performance



- ■ ■ = #75 Spring
- — — = #60 Spring
- ● ● = #50 Spring
- — — = #40 Spring

Features:

- All steel housing provide strength, durability and extra corrosion resistance.
- Steel piston and nylon bearings provide maximum guidance stability that diffuses lateral and twisting motion.
- Steel alloy springs are epoxy coated to protect against rust and corrosion.
- Deeper spring cavities and optional spring force outputs offer uniform output and longer service life.
- Unit cannot be released manually, making it inoperative. This insures the vehicle cannot be moved until the air supply is at a safe level.

Specifications:

Maximum Air Pressure 125 PSI

Notes:

- 1) Single Pack – 1 per Box.
- 2) Replacement Parts listed later in this section.

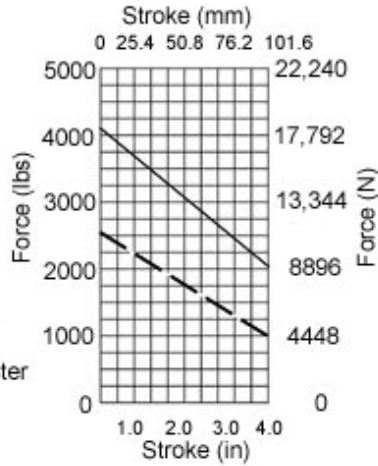
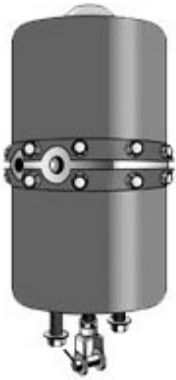
SKU#	Product Description	Stroke	Spring	Push Rod	OEM Part Number	Core Group
MA15600	MAXIBRAKE® R-Series – Air Application – Push Type	1.38"	#40	8"	KSMR0PH40-800NN	-
MA15601	MAXIBRAKE® R-Series – Air Application – Push Type	1.38"	#50	8"	KSMR0PH50-800NN	-
MA15603	MAXIBRAKE® R-Series – Air Application – Push Type	1.38"	#75	8"	KSMR0PH75-800NN	-
MA15605	MAXIBRAKE® R-Series – Air Application – Push Type	1.38"	#75	8"	KSMR0PHS75-800NN	-
MA15606	MAXIBRAKE® R-Series – Air Application – Push Type	2.25"	#40	8"	KSMR1PH40-800NN	-
MA15607	MAXIBRAKE® R-Series – Air Application – Push Type	2.25"	#50	8"	KSMR1PH50-800NN	-
MA15608	MAXIBRAKE® R-Series – Air Application – Push Type	2.25"	#60	8"	KSMR1PH60-800NN	-
MA15609	MAXIBRAKE® R-Series – Air Application – Push Type	2.25"	#75	8"	KSMR1PH75-800NN	-
MA15610	MAXIBRAKE® R-Series – Air Application – Push Type	2.25"	#50	8"	KSMR1PHS50-800NN	-
MA15612	MAXIBRAKE® R-Series – Air Application – Push Type	2.25"	#75	8"	KSMR1PHS75-800NN	-
MA15614	MAXIBRAKE® R-Series – Air Application – Push Type	2.62"	#50	8"	KSMR2PH50-800NN	-
MA15615	MAXIBRAKE® R-Series – Air Application – Push Type	2.62"	#60	8"	KSMR2PH60-800NN	-
MA15616		2.62"	#75	8"	KSMR2PH75-800NN	-

	MAXIBRAKE® R-Series – Air Application – Push Type					
MA15617	MAXIBRAKE® R-Series – Air Application – Push Type	2.62"	#50	8"	KSMR2PHS50–800NN	–
MA15618	MAXIBRAKE® R-Series – Air Application – Push Type	2.62"	#60	8"	KSMR2PHS60–800NN	–
MA15619	MAXIBRAKE® R-Series – Air Application – Push Type	2.62"	#75	8"	KSMR2PHS75–800NN	–
MA15621	MAXIBRAKE® R-Series – Air Application – Push Type	3.00"	#50	8"	KSMR3PH50–800NN	–
MA15622	MAXIBRAKE® R-Series – Air Application – Push Type	3.00"	#60	8"	KSMR3PH60–800NN	–
MA15623	MAXIBRAKE® R-Series – Air Application – Push Type	3.00"	#75	8"	KSMR3PH75–800NN	–
MA15623X	Remanufactured MAXIBRAKE® R-Series – Air Application – Push Type	3.00"	#75	8"	KSMR3PH75–800NN	MXR1
MA15624	MAXIBRAKE® R-Series – Air Application – Push Type	3.00"	#50	8"	KSMR3PHS50–800NN	–

MAXIBRAKE® 50-Series Spring Brakes

MAXIBRAKE®
50-SERIES

Spring Chamber Performance



— = Nominal Heavy Spring with Booster
 - - - = Nominal Heavy Spring Only

Features:

- All steel housings provide strength, durability and extra corrosion resistance
- Nylon piston and push rod bearings prevent metal-to-metal contact.
- Packing cup type piston seals provide positive seal throughout articulating action.
- Dual pistons (service and spring chamber) insures that pressure bearing surface remains constant.

Notes:

- 1) Single Pack – 1 per Box.
- 2) Replacement Parts listed later in this section.

SKU#	Product Description	Service Size	Push Rod	OEM Part Number	Core Group
MA15690	MAXIBRAKE® 50-Series Spring Brake	50"	1.75"	KSC50HBBC-175NN	-
MA15690X	Remanufactured MAXIBRAKE® 50-Series Spring Brake	50"	1.75"	KSC50HBBC-175NN	MX50
MA15691	MAXIBRAKE® 50-Series Spring Brake	50"	8.00"	KSC50HBBC-800NN	-

MAXIBRAKE® 50-Series Service Chambers



Features:

- Output is constant.
- Black epoxy coated finish allows for extra corrosion resistance.
- Heavy duty steel and ductile construction for added strength.
- Standard mounting with heavy duty 3/4" mounting studs.

Notes:

- 1) Single Pack – 1 per Box.
- 2) Air applied spring release.
- 3) Replacement Parts listed later in this section.

SKU#	Product Description	Contains
MA15703	MAXIBRAKE® 50-Series Service Chamber – B Model	4" Air with 8.00" Push Rod, with Yoke and Boot.

Wedge Brake Components

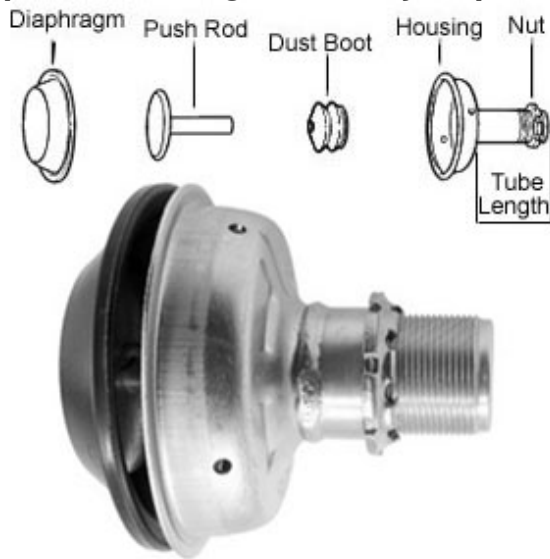
Spring Brake – Service Side and Service Chamber Components



SKU#	Product Description	Qty.	Application	Pic. #
0956001	Pressure Cap for Anchorlok® Spring Brake	1	Model Type 9SD	1
0962001	Diaphragm (Service) for Anchorlok® Spring Brake	1	Model Types 9SD, 0912 and 0916	2
0964003	Clamp Band Assembly (Service) for Anchorlok® Spring Brake	1	Model Types 9SD, 0912 and 0916	4
1256001	Pressure Cap for Anchorlok® Spring Brake	1	Model Type 12SD	1
1262001	Diaphragm for Anchorlok® Spring Brake	1	Model Types 1212 and 1216 Emergency 12SD, 1212 and 1216 Service	2
1264003	Clamp Band Assembly for Anchorlok® Spring Brake	1	Model Types 0912 and 1212 Emergency 12SD, 1212 and 1216 Service	4
1299001	Release Stud Assembly for Anchorlok® Spring Brake	1	Model Types 0912 and 1212	7
9999130	Nut for Anchorlok® Spring Brake	1	All	3
9999131	Dust Boot for Anchorlok® Spring Brake	1	All	5
9999143	Carriage Bolt and Nut Assembly for Anchorlok® Spring Brake	2	All	6

Wedge Brake Components

Type 09 Housing Assembly Replacement Kit



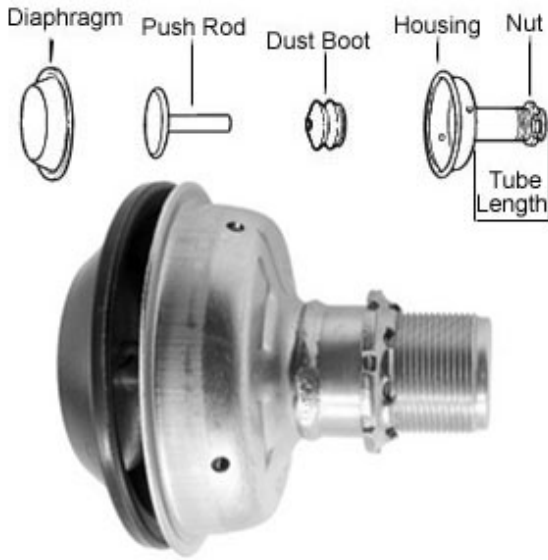
Notes:

- 1) Kit contains: Diaphragm, Push Rod, Dust Boot, Housing and Nut.
- 2) Measure tube length from the end of the tube to the flat in the housing.

SKU#	Product Description	Quantity	Application
0984001	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 2.25" Tube Length
0984003	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 3.50" Tube Length
0984004	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 4.00" Tube Length
0984005	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 5.00" Tube Length
0984006	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 4.50" Tube Length
0984007	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 6.00" Tube Length
0984008	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 7.00" Tube Length
0984009	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 7.88" Tube Length
0984010	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 9.38" Tube Length
0984011	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 10.20" Tube Length
0984012	Housing Assembly Replacement Kit – Bendix®	1	Type 09 Wedge Brake with 14.50" Tube Length
0985001	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 2.25" Tube Length
0985003	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 3.00" Tube Length
0985004	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 4.50" Tube Length
0985005	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 5.00" Tube Length
0985006	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 6.00" Tube Length
0985007	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 7.00" Tube Length
0985008	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 3.50" Tube Length
0985009	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 7.88" Tube Length
0985010	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 9.38" Tube Length
0985011	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 10.20" Tube Length
0985012	Housing Assembly Replacement Kit – Meritor	1	Type 09 Wedge Brake with 14.50" Tube Length

Wedge Brake Components

Type 12 Housing Assembly Replacement Kit



Notes:

- 1) Kit contains: Diaphragm, Push Rod, Dust Boot, Housing and Nut.
- 2) Measure tube length from the end of the tube to the flat in the housing.

SKU#	Product Description	Quantity	Application
1284002	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 14.50" Tube Length
1284003	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 2.25" Tube Length
1284005	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 3.00" Tube Length
1284006	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 3.50" Tube Length
1284007	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 4.00" Tube Length
1284008	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 4.50" Tube Length
1284009	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 5.00" Tube Length
1284010	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 6.00" Tube Length
1284012	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 7.00" Tube Length
1284013	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 7.88" Tube Length
1284014	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 9.38" Tube Length
1284015	Housing Assembly Replacement Kit – Bendix®	1	Type 12 Wedge Brake with 10.20" Tube Length
1285002	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 10.20" Tube Length
1285005	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 14.50" Tube Length
1285007	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 2.25" Tube Length
1285010	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 3.00" Tube Length
1285011	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 3.50" Tube Length
1285012	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 4.00" Tube Length
1285014	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 4.50" Tube Length
1285015	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 5.00" Tube Length
1285017	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 6.00" Tube Length
1285018	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 7.00" Tube Length
1285019	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 7.88" Tube Length
1285022	Housing Assembly Replacement Kit – Meritor	1	Type 12 Wedge Brake with 9.38" Tube Length

Gold Seal and Life Seal Replacement Parts

Boot Assembly, Dust Shield, Release Tool and Plug



BA - Boot Assembly

DS - Dust Shield

RT - Release Tool

RTP - Release Tool Plug

Package – 10 each

SKU#	Product Description	Features
BA1	Boot Assembly	For 5/8" Push Rod
DS1	Dust Shield	5/8" Push Rod, 1" (25.4mm) Hole
DS2	Dust Shield	3/4" Push Rod, 1" (25.4mm) Hole
DS3	Dust Shield – Black	5/8" Push Rod, 1.58" (40mm) Hole
DS4	Dust Shield – Black	3/4" Push Rod, 1.58" (40mm) Hole
RT1	Release Tool	For all DDSB except xx36
RT2	Release Tool	For 3036 and 3636
RT3	Release Tool	For Remote Chambers
RTP1	Release Tool Plug – Blue	For Gold Seal & Clamp Style except xx36.
RTP2	Release Tool Plug	For Midland Style
RTP3	Release Tool Plug	For Gold Seal 3036 & 3636.

Gold Seal and Life Seal Replacement Parts

Clamp Band Kit



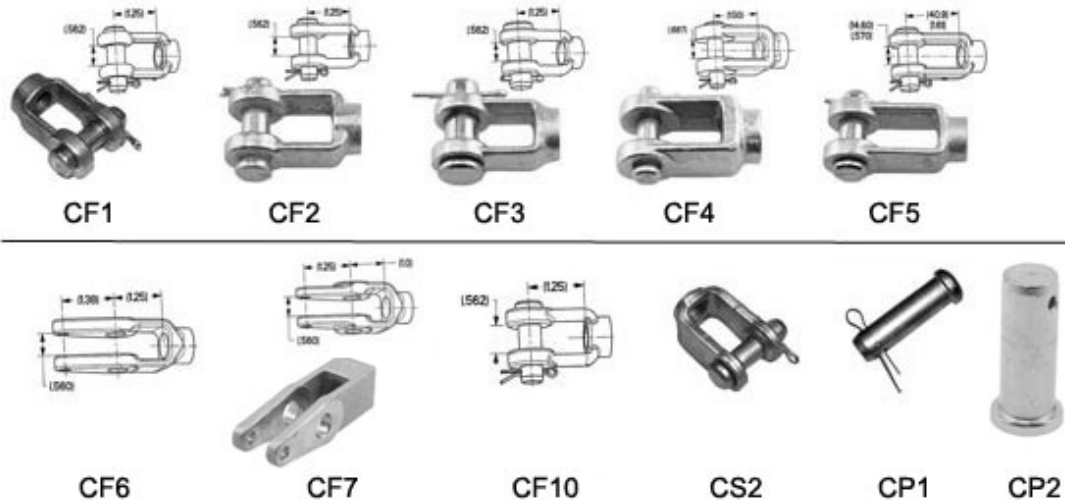
Features:

- Package – 10 each
- Black Finish

SKU#	Product Description	Application	Features
CB09	T–09 Clamp Band Kit	Service Chamber	Contains two bolt style clamp bands.
CB12	T–12 Clamp Band Kit	Service Chamber	Contains two bolt style clamp bands.
CB16	T–16 Clamp Band Kit	Service Chamber	Contains two bolt style clamp bands.
CB20	T–20 Clamp Band Kit	Service Chamber and Type 20 MAXIBRAKE® I Spring Brake	Contains two bolt style clamp bands.
CB20S1	T–20 Clamp Band Kit (Service Side)	Anchorlok® Spring Brake Model Types 20S and 2024	Contains two bolt style clamp bands.
CB24	T–24 Clamp Band Kit	Service Chamber	Contains two bolt style clamp bands.
CB24S1	T–24 Clamp Band Assembly	Anchorlok® Spring Brake Model Types 2030–XLS, 24S, 24S–LS, 2424, 2424–LS, 2430, 2430–LS and 2430–XLS Service Side 1624, 2024 and 2424 Emergency	Contains two bolt style clamp bands.
CB30	T–30 Clamp Band Kit	Service Chamber	Contains two bolt style clamp bands.
CB30S1	T–30 Clamp Band Kit	Anchorlok® Spring Brake Model Types 30S, 30S–LS, 3030, 3030–LS and 3036 (2 piece Style) Service Side 2430, 2430–LS and 3030 Emergency	Contains two bolt style clamp bands.
CB36S1	T–36 Clamp Band Kit (Service Side)	Anchorlok® Spring Brake Model Types 36S and 3636	Contains two bolt style clamp bands.

Gold Seal and Life Seal Replacement Parts

Clevis, Clevis Pin

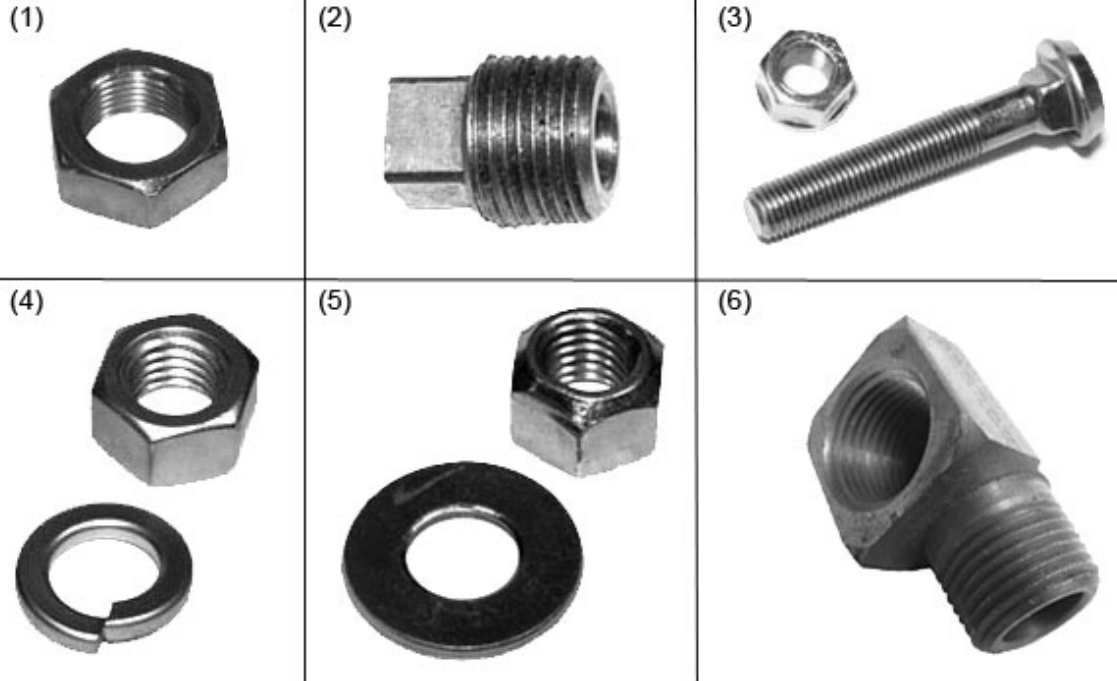


Package – 10 each

SKU#	Product Description	Features
CF1	Clevis Forged	0.5 PIN 1/2-20 UNF – 2B THD
CF10	Clevis Forged	1/2" Stainless Steel Pin 5/8-18 UNF – 2B THD
CF11	Clevis Forged	14mm PIN 3/4-16 UNF – 2B THD
CF2	Clevis Forged	0.5 PIN 5/8-18 UNF – 2B THD
CF3	Clevis Forged	5/8 PIN 5/8-18 UNF – 2B THD
CF4	Clevis Forged	1/2 PIN 3/4-16 UNF – 2B THD
CF5	Clevis Forged	14mm PIN M16 x 1.5 – 6H THD
CF7	Clevis Forged	1/2 & 1/4 PIN (1.25 between pins) 5/8-18 UNF – 2B THD
CP1	Clevis Pin	1/2" – 1.62 Length
CP1S	Clevis Pin – Stainless Steel	1/2" – 1.62 Length
CP2	Clevis Pin	5/8" – 1.62 Length
CP3	Clevis Pin	14mm – 41mm Length

Gold Seal and Life Seal Replacement Parts

Hardware Kits and Pipe Plug Fitting



Package – 10 each

SKU#	Product Description	Features	Picture Number
HW1	Mounting Hardware Kit	Lock Washer & Standard Nut 7/16" – 14	4
HW10	90° Elbow Kit	3/8-18 NPT	6
HW2	Mounting Hardware Kit	Lock Washer & Standard Nut 5/8" – 11	4
HW3	Mounting Hardware Kit	Flat Washer & Locking Nut 5/8" – 11	5
HW4	Jam Nut	1/2" – 20	1
HW5	Jam Nut	5/8" – 18	1
HW6	Jam Nut	M16	1
HW7	Jam Nut	3/4" – 16	1
HW8	Clamp Band Nut and Bolt	3/8" – 24	3
PP1	Pipe Plug Fitting	3/8", Square	2

Gold Seal and Life Seal Replacement Parts

Diaphragms



Features:

- Package – 10 each

SKU#	Product Description	Stroke	Outside Diameter
DP09	T-09 Diaphragm	1.75" 44mm	5.12
DP12	T-12 Diaphragm	1.75" 44mm	5.47
DP16	T-16 Diaphragm	2.25" 57mm	6.16
DP16L	T-16L Diaphragm	2.50" 64mm	6.16
DP20	T-20 Diaphragm	2.25" 57mm	6.56
DP20L	T-20L Diaphragm	2.50" 64mm	6.56
DP24L	T-24 and T-24L Diaphragm	2.25/2.50" 57/64mm	7.00
DP24XL	T-24XL Diaphragm	3.00" 76mm	7.00
DP30	T-30 Diaphragm	2.50" 64mm	7.88
DP30L	T-30L Diaphragm	3.00" 76mm	7.88
DP36	T-36 Diaphragm	3.00" 76mm	8.50

Gold Seal and Life Seal Replacement Parts

Service Push Rod and Return Spring



Service Push Rod



RS5



RS6



RS7

Service Return Spring

Package – 1 each

SKU#	Product Description	Rod/Thread Length	Features
PR20	T-20 Service Push Rod	13.50/10.50	5/8"-18 UNF
PR24	T-24 Service Push Rod	14.00/11.15	5/8"-18 UNF
PR24M	T-24M Service Push Rod	12.50/8.60	M16
PR30	T-30 Service Push Rod	17.75/14.75	5/8"-18 UNF
PR30M	T-30M Service Push Rod	12.62/8.90	M16
PR30S1	T-30 Service Push Rod	24.0/21.0	3/4"-14 UNF
PR36	T-36 Service Push Rod	18.00/14.25	5/8"-18 UNF
PR36S1	T-36 Service Push Rod	12.50/8.75	3/4"-14 UNF
RS5	Service Return Spring	-	For Midland and current T-30 & G(L)C 3030 2.5" Models
RS6	Service Return Spring	-	For Anchorlok and DDSB except 3636 and RS5
RS7	Service Return Spring	-	For Type 3636

Gold Seal and Life Seal Replacement Parts

Spring Brake Service Housing and Pressure Housing



Pressure Housing



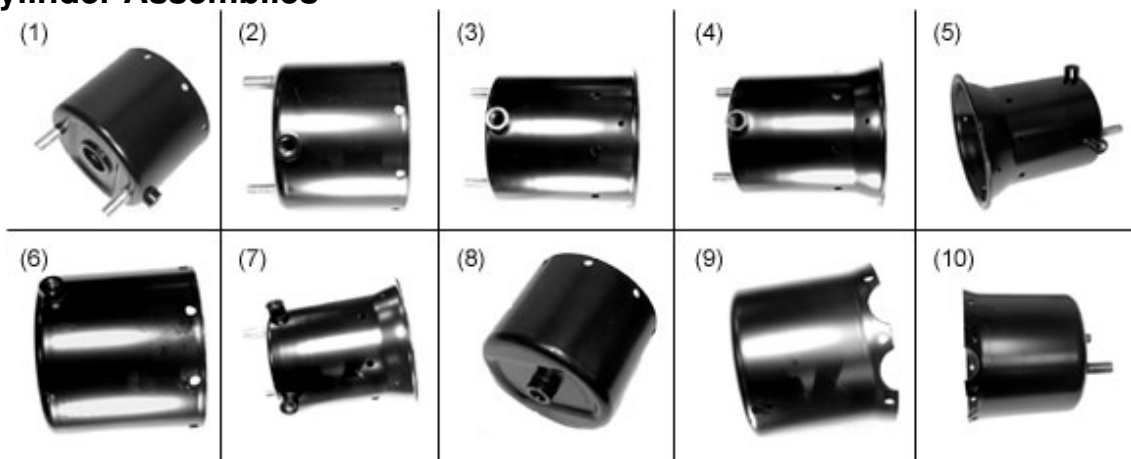
Service Housing
(Includes Hardware)

Package – 1 each

SKU#	Product Description	Stroke	Features
PH30	T-30 Pressure Housing	2.50" 64mm	3/8"-18 NPTF Air Inlet
SBH24L	Spring Brake Service Housing	2.25/2.50" 57/64mm	9 Guage with 40mm Hole
SBH24XL	Spring Brake Service Housing	3.00" 76mm	9 Guage with 40mm Hole
SBH30	Spring Brake Service Housing	2.50" 64mm	9 Guage
SBH30HD	Spring Brake Service Housing – Heavy Duty	2.50" 64mm	8 Guage
SBH30L	Spring Brake Service Housing	3.00" 76mm	9 Guage with 40mm Hole

MAXIBRAKE® Replacement Parts

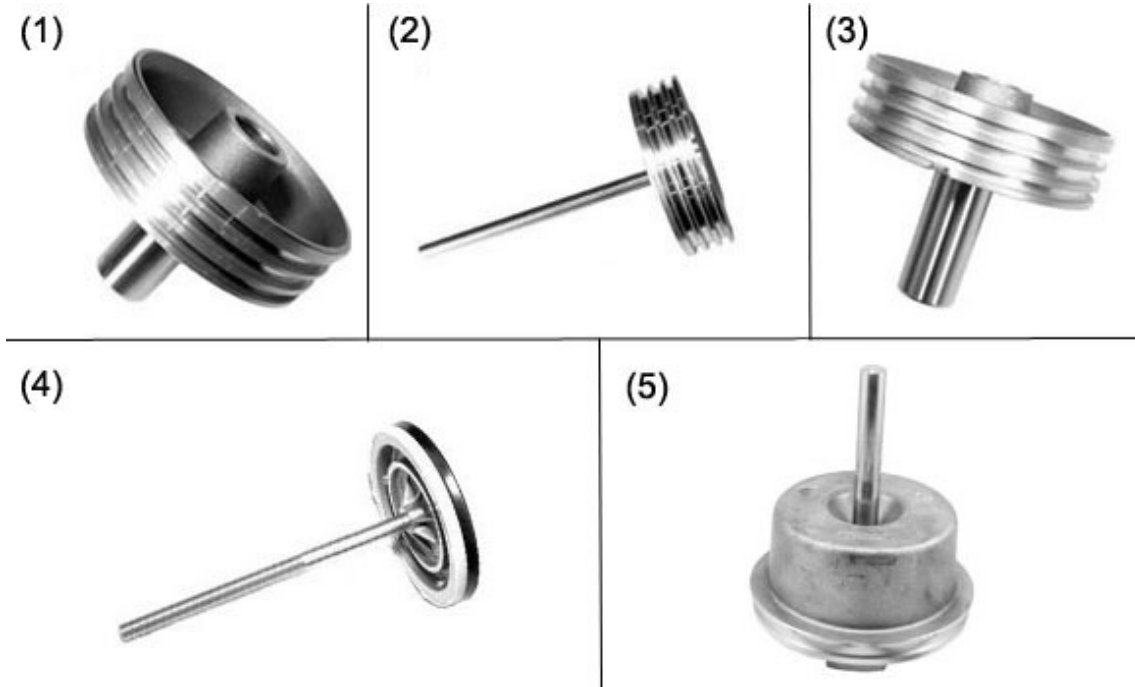
Cylinder Assemblies



SKU#	Product Description	Application	Pic. #
KSM4040894	Cylinder Assembly (Air)	MAXIBRAKE® R-Series Spring Brake Pull Type, 1.38" stroke	–
M4031043	Cylinder Assembly (Air)	MAXIBRAKE® R-Series Spring Brake Air – Push Type, R1PH 2.25" stroke	1
M4031089	Cylinder Assembly (Air)	MAXIBRAKE® R-Series Spring Brake Air – Push Type, R3PH 3.00" stroke	2
M4031090	Cylinder Assembly (Air)	MAXIBRAKE® R-Series Spring Brake Air – Push Type, R2PH/R2PHS 2.62" stroke	2
M4040527	Cylinder Assembly	Type 20 MAXIBRAKE® I Spring Brake – 3/8" NPT	2
M4040530	Cylinder Assembly	Type 24 MAXIBRAKE® I Spring Brake – 3/8" NPT	3
M4040533	Cylinder Assembly	Type 30 MAXIBRAKE® I Spring Brake – 3/8" NPT	4
M4040596	Cylinder Assembly	Type 36 MAXIBRAKE® I Spring Brake – 3/8" NPT	5
M4040772	Cylinder Assembly (Air)	MAXIBRAKE® R-Series Spring Brake Air – Pull Type, 2.62" stroke	6
M4040900	Cylinder Assembly (Air)	MAXIBRAKE® R-Series Spring Brake Air – Pull Type, 3.00" stroke	6
M4041173	Cylinder Assembly – Universal	Type 24 MAXIBRAKE® I Spring Brake	7
M4041175	Cylinder Assembly – Universal	Type 30 MAXIBRAKE® I Spring Brake	7
M4041177	Cylinder Assembly – Universal	Type 36 MAXIBRAKE® I Spring Brake	5
M4041302	Cylinder Assembly (Hydraulic)	MAXIBRAKE® R-Series Spring Brake Hydraulic – Pull Type, 2.25" stroke	8
M5040567	Service Cylinder Assembly	MAXIBRAKE® 50-Series Spring Brake	10
M5040580	Emergency Cylinder Assembly	MAXIBRAKE® 50-Series Spring Brake	9
M5200143	Cylinder Assembly	MAXIBRAKE® H-Series Air Spring–Set Parking Brake	–

MAXIBRAKE® Replacement Parts

Piston Assemblies



SKU#	Product Description	Application	Pic. #
M4031742	Piston Assembly	MAXIBRAKE® R-Series Air – Push Type Spring Brake R1PH 2.25" stroke	1
M4031743	Piston Assembly	MAXIBRAKE® R-Series Air – Push Type Spring Brake R2PH 2.62" stroke and R2PHS 2.62" stroke	1
M4031744	Piston Assembly	MAXIBRAKE® R-Series Air – Push Type Spring Brake R3PH 3.00" stroke only	3
M4040893	Piston Assembly	MAXIBRAKE® R-Series Spring Brake Air – Pull Type (all strokes) includes Push Rod with standard 8.00" projection	2
M5040513	Service Piston Assembly	MAXIBRAKE® 50-Series Spring Brake	4
M5040516	Emergency Piston Assembly Kit	MAXIBRAKE® 50-Series Spring Brake	5

MAXIBRAKE® Replacement Parts

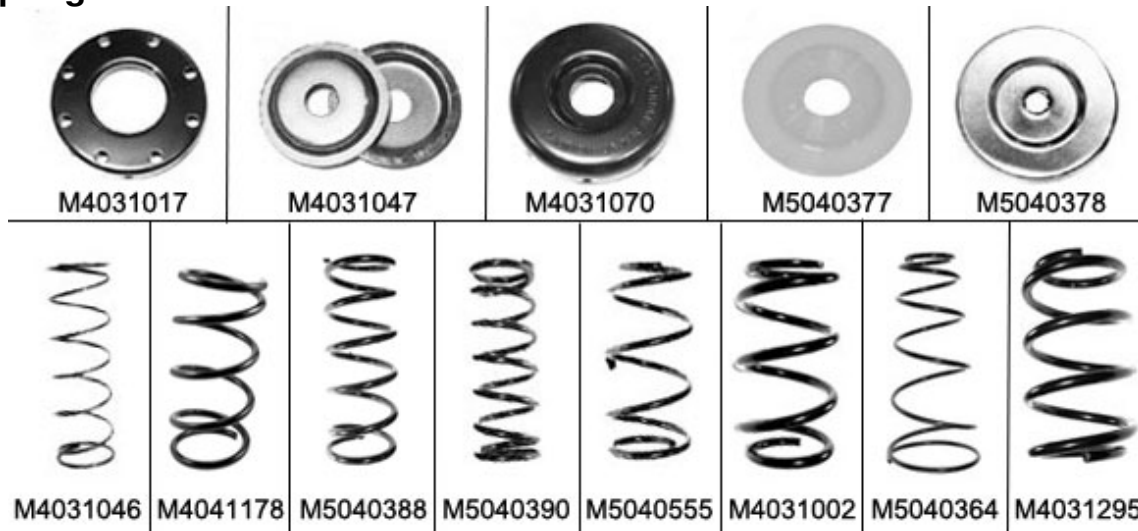
Push Rod Assemblies



SKU#	Product Description	Application	Notes	Pic. #
M4036060	Push Rod	Type 24 MAXIBRAKE® I Spring Brake	8.00" projection	1
M4036066	Push Rod	Type 30 MAXIBRAKE® I Spring Brake	8.00" projection	1
M4036067	Push Rod	Type 36 MAXIBRAKE® I Spring Brake	1.75" projection	2
M4036068	Push Rod	Type 36 MAXIBRAKE® I Spring Brake	8.00" projection	1
M4040717	Push Rod Assembly	MAXIBRAKE® R-Series Air – Push Type Spring Brake with R3PH 3.00" stroke	Includes Push Rod with standard 8.00" projection	3
M4040719	Push Rod Assembly	MAXIBRAKE® R-Series Air – Push Type Spring Brake with R1PH 2.25" stroke	Includes Push Rod with standard 8.00" projection	3
M4040796	Push Rod Assembly	MAXIBRAKE® R-Series Air – Push Type Spring Brake with R2PHS 2.62" stroke	Includes Push Rod with standard 8.00" projection	3
M4731986	Push Rod Assembly	Type 30 MAXIBRAKE® Camtite Series Spring Brake	8.00" projection	2

MAXIBRAKE® Replacement Parts

Springs and Accessories



SKU#	Product Description	Application
M4031002	#75 Spring	Type 20, 24, 30, 36 MAXIBRAKE® I-Series Spring Brake MAXIBRAKE® R-Series Spring Brake Air – Push and Pull Type, all strokes
M4031017	Spring Support	Type 24, 30, 36 MAXIBRAKE® I Spring Brake
M4031021	#60 Spring	Type 20, 24, 30, 36 MAXIBRAKE® I-Series Spring Brake MAXIBRAKE® R-Series Spring Brake Air – Push and Pull Type, all strokes
M4031046	Push Rod Retainer Spring	Type 20, 24, 30, 36 MAXIBRAKE® I Spring Brake
M4031047	Spring Retainer	Type 20, 24, 30, 36 MAXIBRAKE® I Spring Brake
M4031070	Spring Support	MAXIBRAKE® R-Series Spring Brake Air – Push and Pull Type, all strokes
M4031295	#50 Spring	Type 20, 24, 30, 36 MAXIBRAKE® I-Series Spring Brake MAXIBRAKE® R-Series Spring Brake, Pull Type, all strokes
M4040475	Spring Support	Type 20 MAXIBRAKE® I Spring Brake
M4041178	#40 Spring	MAXIBRAKE® R-Series Spring Brake – Air – Pull Type, all strokes
M5040364	Return Spring	MAXIBRAKE® 50-Series Spring Brake
M5040377	Return Spring Locator	MAXIBRAKE® 50-Series Spring Brake MAXIBRAKE® 50-Series Service Chamber – B Model
M5040378	Spring Locator	MAXIBRAKE® 50-Series Spring Brake
M5040388	Heavy Spring	MAXIBRAKE® 50-Series Spring Brake
M5040390	Booster Spring	MAXIBRAKE® 50-Series Spring Brake
M5040555	Spring	MAXIBRAKE® 50-Series Service Chamber – B Model

MAXIBRAKE® Replacement Parts

Miscellaneous

Product Image Not Available

SKU#	Product Description	Application
5040383	Filter	MAXIBRAKE® 50-Series – Filter – Foam
KSH5200099	Fluid Inlet Fitting	MAXIBRAKE® H-Series Spring Brake
M4031041	Cap Screw	MAXIBRAKE® I-Series Type 24, 30, 36 and MAXIBRAKE® R-Series Spring Brake Air – Push and Pull Type, all strokes
M4031044	Small O-Ring	MAXIBRAKE® I-Series Type 20, 24, 30, 36 and MAXIBRAKE® R-Series Spring Brake Air – Push and Pull Type, all strokes
M4031045	Large O-Ring	MAXIBRAKE® R-Series Spring Brake – Air – Push and Pull Type, all strokes
M4031061	Clamp Band Kit	Type 24 MAXIBRAKE® I and Camtite Spring Brake
M4031076	Plug Cylinder	MAXIBRAKE® I-Series Type 24, 30, 36 and MAXIBRAKE® R-Series Spring Brake Air – Push and Pull Type, all strokes
M4031134	Jam Nut	MAXIBRAKE® I-Series Type 20, 24, 30, 36 and MAXIBRAKE® R-Series Spring Brake Air – Push Type, all strokes
M4031161	Nylon Bushing	MAXIBRAKE® I-Series Type 20, 24, 30, 36 and MAXIBRAKE® R-Series Spring Brake Air – Push Type, all strokes
M4031173	Felt Wiper Ring (Air Unit Only)	MAXIBRAKE® I-Series Type 20, 24, 30, 36 and MAXIBRAKE® R-Series Spring Brake Air – Push and Pull Type, all strokes
M4031251	Diaphragm	Type 24 MAXIBRAKE® I and Camtite Spring Brake
M4031334	Dust Boot Kit	MAXIBRAKE® R-Series Spring Brake – Air – Push Type, all strokes
M4031340	Flange Nut	MAXIBRAKE® I-Series Type 20, 24, 30, 36 and MAXIBRAKE® R-Series Spring Brake Air – Push Type, all strokes
M4036174	Pressure Plate Assembly – 3/8" Side	Type 30 MAXIBRAKE® I Spring Brake
M4040754	Steel Pressure Plate	Type 24 MAXIBRAKE® I Spring Brake
M4040757	Steel Pressure Plate	Type 36 MAXIBRAKE® I Spring Brake
M4040997	Pressure Plate	Type 24 MAXIBRAKE® I Spring Brake
M4041367	Piston Bearing	Type 20, 24, 30, 36 MAXIBRAKE® I Spring Brake
M4041502	Steel Stud Mounting Plate	MAXIBRAKE® R-Series Spring Brake – Air – Push and Pull Type, all strokes
M4631656	Cap Screw	MAXIBRAKE® Camtite Series Spring Brake Type 24, 30 and 36, MAXIBRAKE® 50-Series Spring Brake
M4731785	Follower	Type 24, 30 and 36 MAXIBRAKE® Camtite Series Spring Brake
M4731804	Retainer Ring	Type 24, 30 and 36 MAXIBRAKE® Camtite Series Spring Brake
M4740161	Instruction Washer	Type 24, 30 and 36 MAXIBRAKE® Camtite Series Spring Brake MAXIBRAKE® 50-Series Spring Brake
M4740313	Bulkhead	3/8" NPT Air Inlets for Type 36 MAXIBRAKE® Camtite Series Spring Brake
M5040367	Service Piston Bearing	MAXIBRAKE® 50-Series Spring Brake – Emergency Piston Bearing prior to 5/00.

M5040368	Packing Cup	MAXIBRAKE® 50–Series Spring Brake
M5040370	Bulkhead	MAXIBRAKE® 50–Series Spring Brake
M5040372	Nylon Bushing	MAXIBRAKE® 50–Series Spring Brake
M5040373	Snap Ring	MAXIBRAKE® 50–Series Spring Brake
M5040391	Jam Nut	MAXIBRAKE® 50–Series Spring Brake MAXIBRAKE® 50–Series Service Chamber – B Model
M5040392	Yoke Kit	MAXIBRAKE® 50–Series Spring Brake MAXIBRAKE® 50–Series Service Chamber – B Model
M5040402	Service Filter	MAXIBRAKE® 50–Series Spring Brake MAXIBRAKE® 50–Series Service Chamber – B Model
M5040486	Boot Kit	MAXIBRAKE® 50–Series Spring Brake
M5040524	Boot Assembly	MAXIBRAKE® 50–Series Service Chamber – B Model
M5040536	Filter Retaining Ring	MAXIBRAKE® 50–Series Spring Brake
M5040538	Large Seal	MAXIBRAKE® 50–Series Spring Brake
M5040557	O–Ring	MAXIBRAKE® 50–Series Service Chamber – B Model
M5040563	Emergency Piston Bearing	MAXIBRAKE® 50–Series Service Chamber – B Model MAXIBRAKE® 50–Series Spring Brake
M5040585	Release Bolt Kit	MAXIBRAKE® 50–Series Spring Brake
M5200108	Jam Nut	MAXIBRAKE® H–Series Air Spring–Set Parking Brake
MQ5200180	Bleeder Valve and Adapter Kit	MAXIBRAKE® H–Series Spring Brake

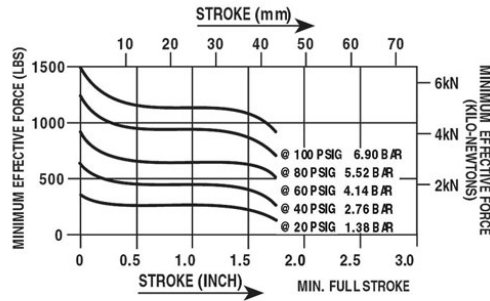
MAXIBRAKE® Replacement Parts**Maintenance/Service Kits****Product Image Not Available**

SKU#	Product Description	Application	Notes
M5040566	Maintenance Kit	MAXIBRAKE® 50-Series Service Chamber – B Model	Kit contains: (1) Piston Bearing, (2) O-Rings, (1) Lubricant, (1) Spring Locator, (1) Filter, (1) Boot Strap and (1) Boot Adapter.
M5200078	Hydraulic Service Kit	MAXIBRAKE® H-Series Spring Brake	Kit includes O-Rings, Piston Bearing, Insert, Piston Bearing Compressor, Filter, TR-3 Lubricant, Release Bolt, Pin, and Slotted Nut.
M5200090	Hydraulic Service Kit	MAXIBRAKE® H-Series Spring Brake	Kit includes O-Rings, Piston Bearing, Insert, Piston Bearing Compressor, Filter and TR-3 Lubricant.
M5200092	Service Parts Kit	MAXIBRAKE® H-Series Spring Brake	Kit includes Release Bolt, Pin, Slotted Nut and Filter.
M5200173	Air Service Kit	MAXIBRAKE® H-Series Spring Brake	Kit includes O-Rings, Piston Bearing, Insert, Piston Bearing Compressor, Filter, Release Bolt, Pin and Slotted Nut.
M5200200	Air Service Kit	MAXIBRAKE® H-Series Spring Brake	Kit includes O-Rings, Piston Bearing, Insert, Piston Bearing Compressor, Filter, TR-3 Lubricant, Release Bolt, Pin and Slotted Nut.
M5200201	Air Service Kit	MAXIBRAKE® H-Series Spring Brake	Kit includes O-Rings, Piston Bearing, Insert, Piston Bearing Compressor, Filter and TR-3 Lubricant.
MQ15708	Service Kit – Air	MAXIBRAKE® HR-Series Air – Pull Type Spring Brake	–
RN21AD	Spring Brake Maintenance Kit for 1 Unit	MAXIBRAKE® I Series Type 20, 24, 30, 36 and R Series Spring Brake	For aluminum pistons, services one unit.
RN21AE	Spring Brake Maintenance Kit for 2 Units	MAXIBRAKE® I Series Type 20, 24, 30, 36 and R Series Spring Brake	For aluminum pistons, services two units.

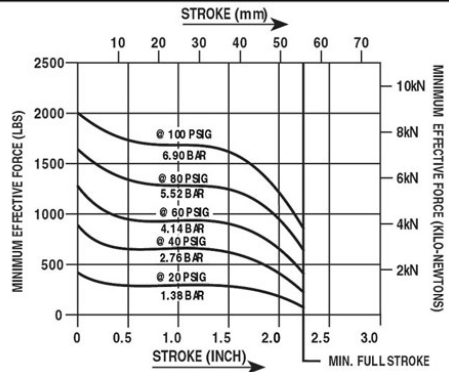
Service Diaphragm Performance Curves

NOTE: Service and Spring Brake Force Curves are Stated as Minimum Values.

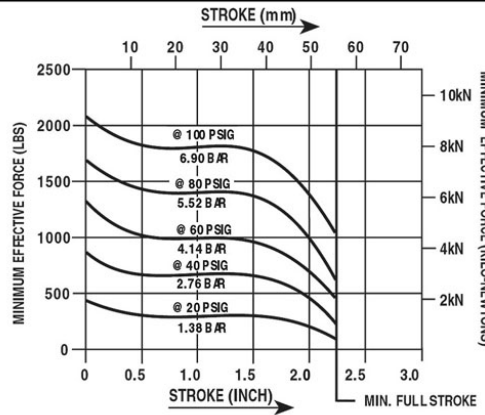
**MODELS
S12**



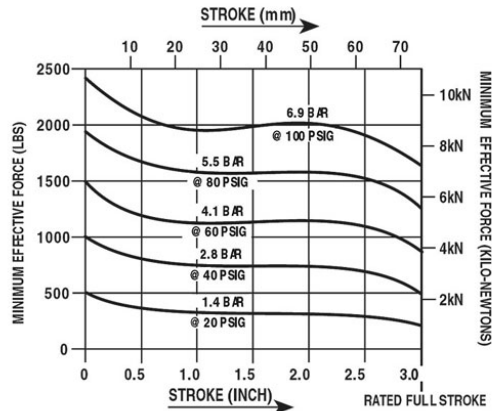
**MODELS
S16**



**MODELS
S20,
GC2024**

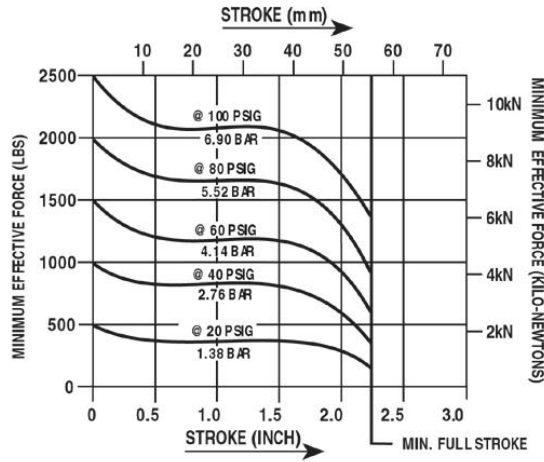


**MODELS
GC2030
XL**

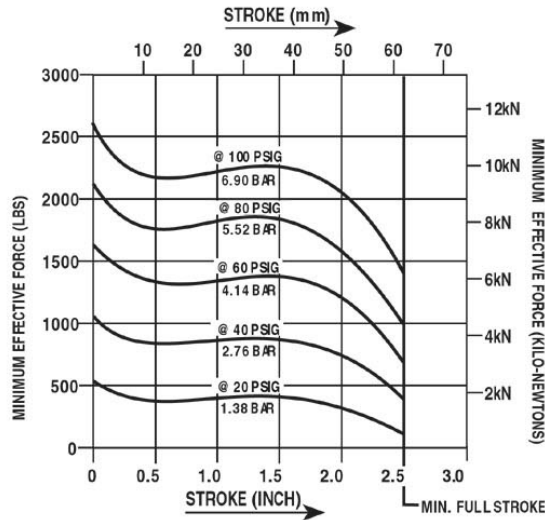


Service Diaphragm Performance Curves

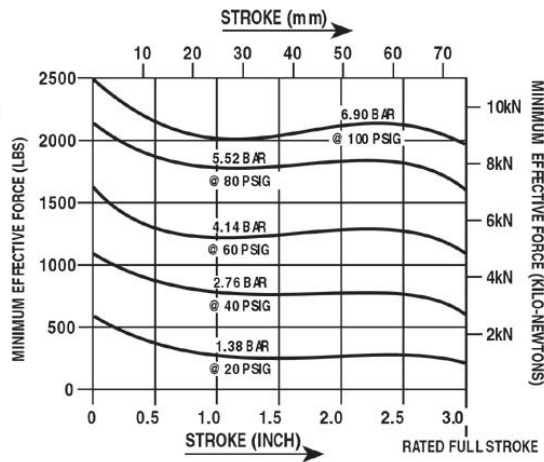
MODELS
S24,
GC2424,
GC2430



MODELS
S24L,
GC2424L,
GC2430L,
LC2430L

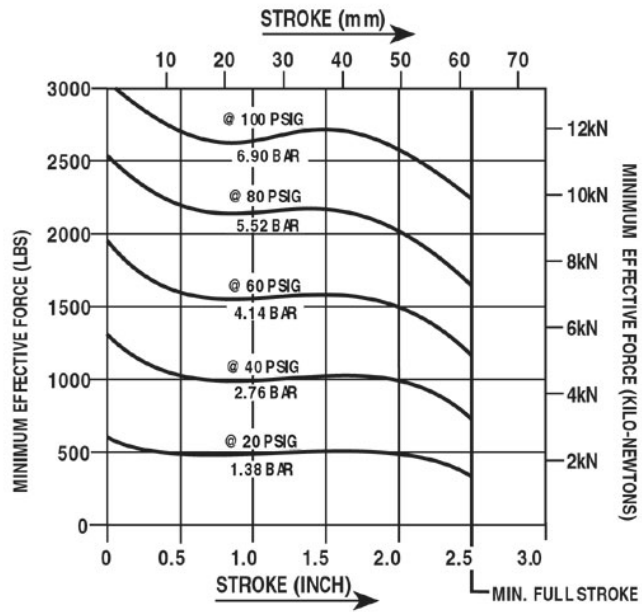


MODELS
GC2430XL
(EUROBRAKE)
LC2430L

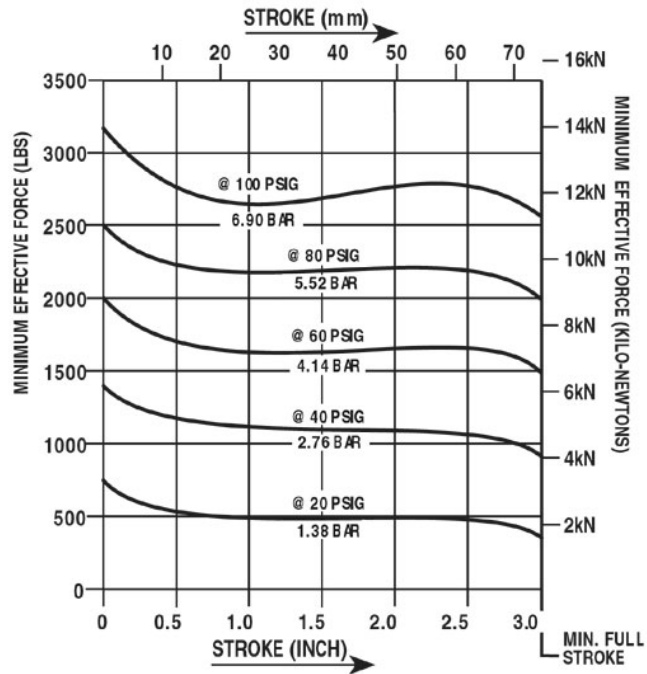


Service Diaphragm Performance Curves

MODELS
S30,
GC3030,
LC3030,
GC3030HO,
GC3036

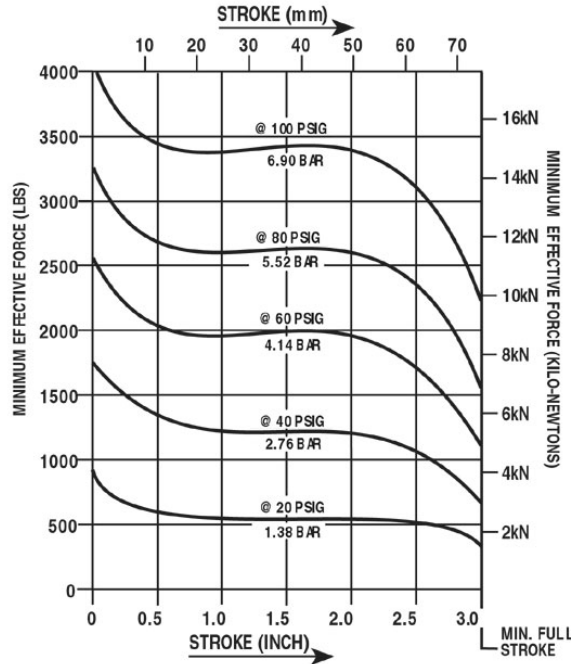


MODELS
S30L,
GC3030L
LC3030L
GC3036L

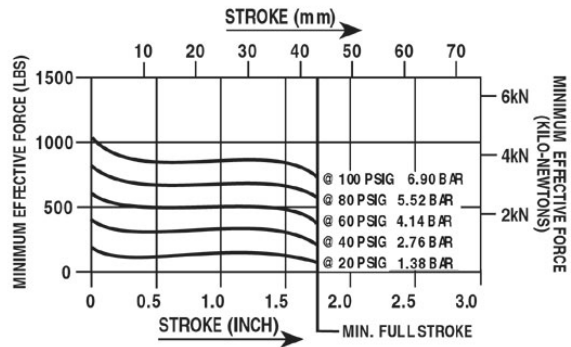


Service Diaphragm Performance Curves

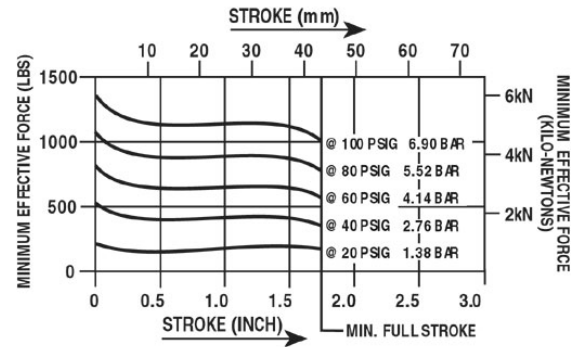
**MODELS
S36,
GC3636**



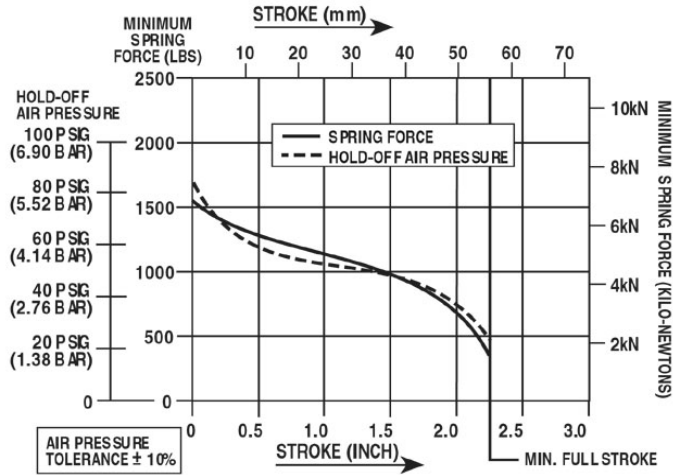
**WEDGE BRAKE
MODELS
09 SD,
0912,
0916**



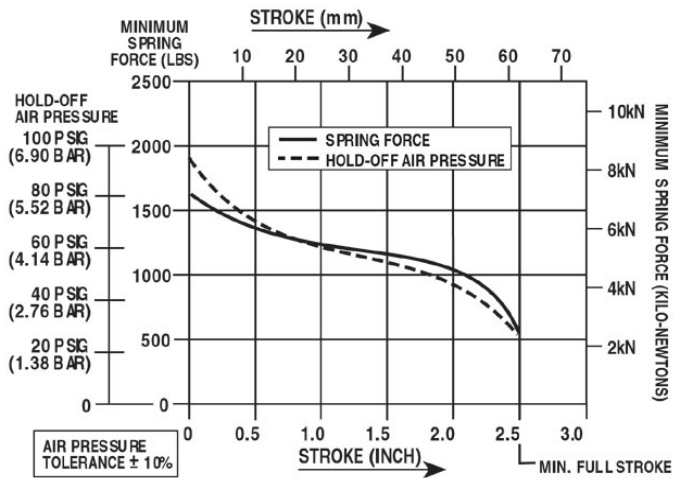
**WEDGE BRAKE
MODELS
12 SD,
1212,
1216**



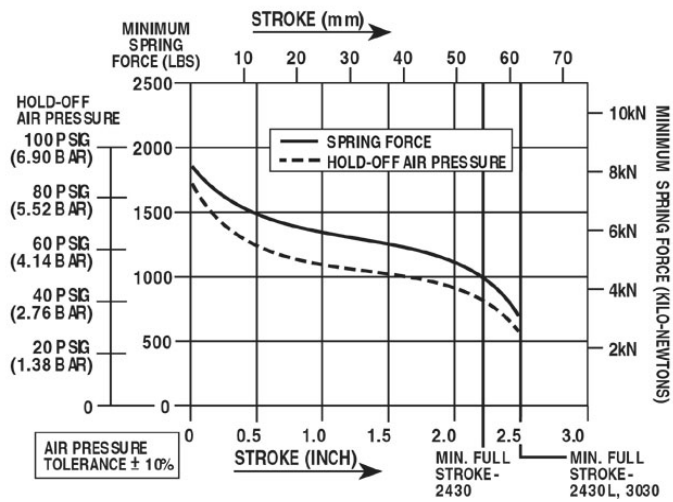
**MODELS
1624,
2024,
2424**



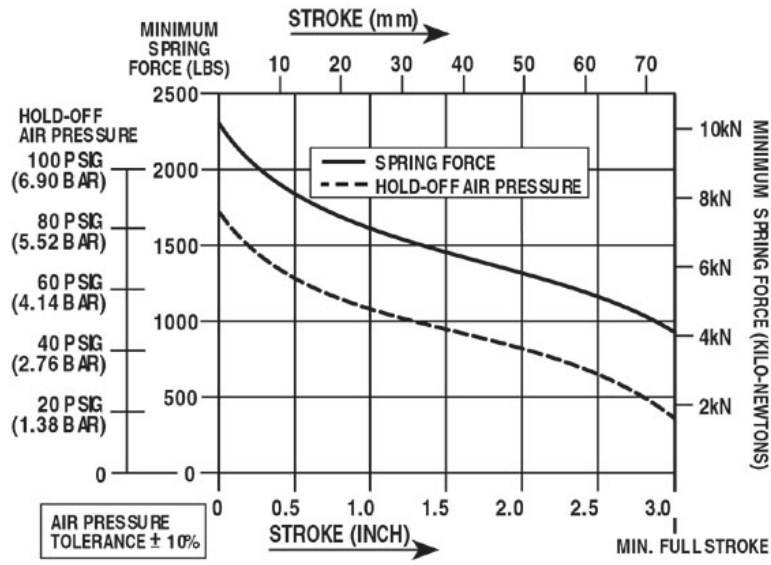
**MODELS
2424 L**



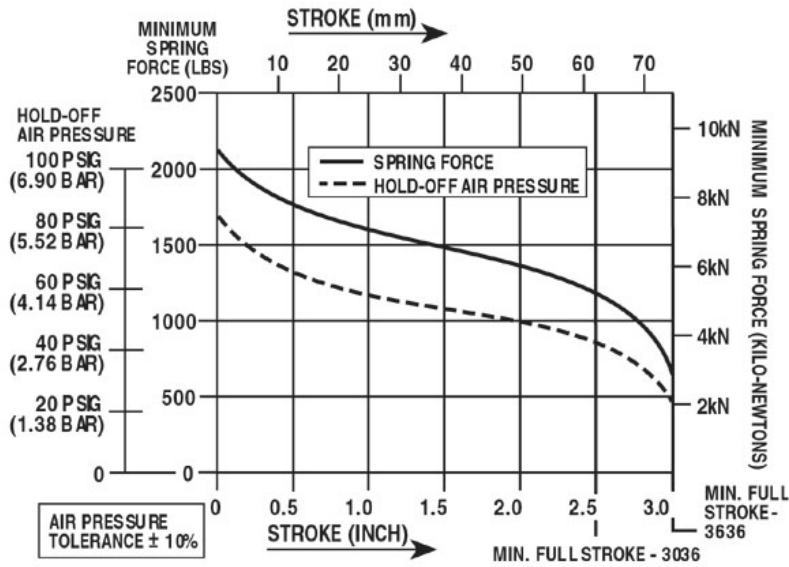
**MODELS
2430,
3030,
2430 L**



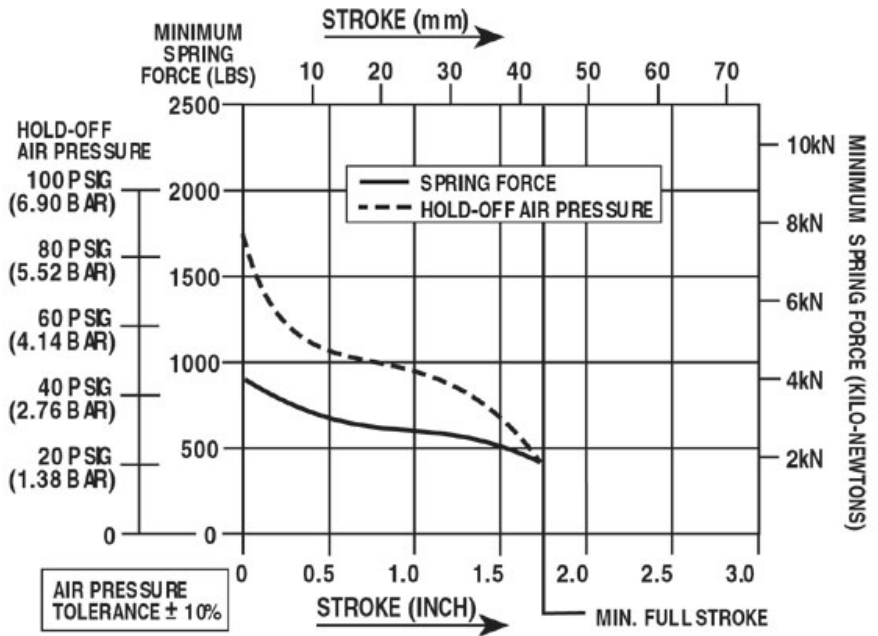
MODELS
2030 XL,
2430 XL,
3030 L



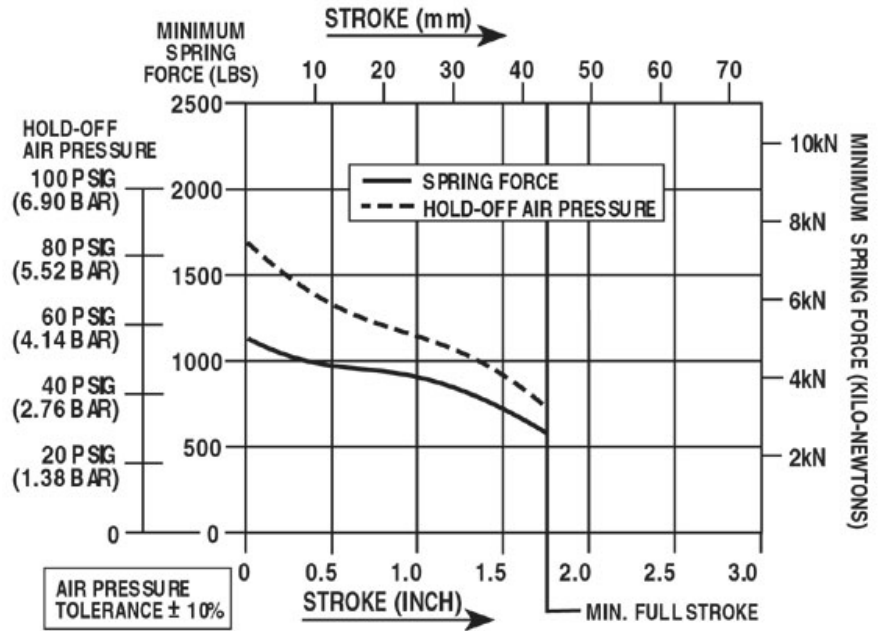
MODELS
3036,
3636



**WEDGE BRAKE
MODELS
0912,
1212**



**WEDGE BRAKE
MODELS
0916,
1216**



⚠ DANGER: A spring brake contains a very powerful compression spring. Failure to comply with all of the following instructions may result in forceful release of the piggyback or spring chamber and its contents which could CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

IMPORTANT: ALWAYS BLOCK WHEELS to prevent vehicle rollaway when performing any brake maintenance.

⚠ DANGER: Haldex Anchorlok DOES NOT recommend the rebuilding of any of its air brake actuator products. Nor does Haldex Anchorlok recommend the use of rebuilt Haldex Anchorlok air brake actuators.

- If spring brake shows structural damage DO NOT cage the spring and DO NOT attempt to service it. Replace the complete unit. To prevent severe personal injury when removing an uncaged spring brake from a vehicle, cut the service push rod making sure to relieve all force on it. After cutting the push rod, remove the spring brake from the vehicle, then disarm the spring brake using a suitable safety chamber. (See *Spring Brake Disarming Procedures - Figure #36.*)
- Never strike any part of the spring brake with a hammer or any other heavy object; structural damage may result.
- Do not drop spring brake, as power spring may forcefully release.
- If air pressure is used to aid in the caging process, do not tighten the release tool more than finger tight. The air pressure must always be exhausted after the spring has been mechanically caged prior to any disassembly.
- On all Haldex Gold Seal & Life Seal Spring Brakes, the emergency diaphragm cannot be replaced. Replace the complete piggyback. (Follow instructions on Gold Seal Mechanical Release page for Gold Seal brakes, Life Seal Mechanical Release page for Life Seal brakes, and Piggyback Installation Instructions - see Table of Contents for location.)

IMPORTANT: It is recommended that a new service brake diaphragm be used when installing a new piggyback. DO NOT use a piloted diaphragm on the service side (a piloted "protrusion" diaphragm is designed to be used in the emergency spring chamber only). Use of a piloted diaphragm results in a reduction of stroke length.

FIG 1 - Gold Seal Spring Brake

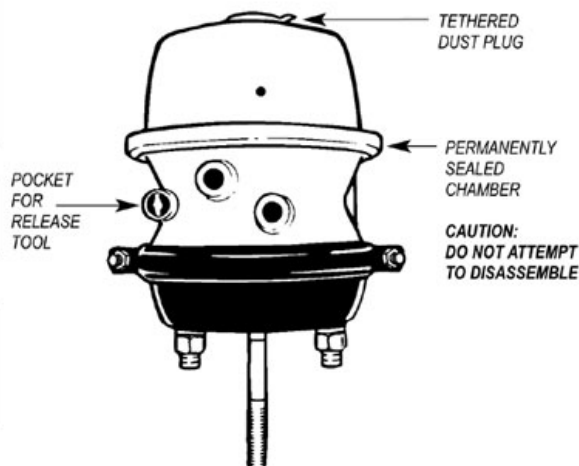
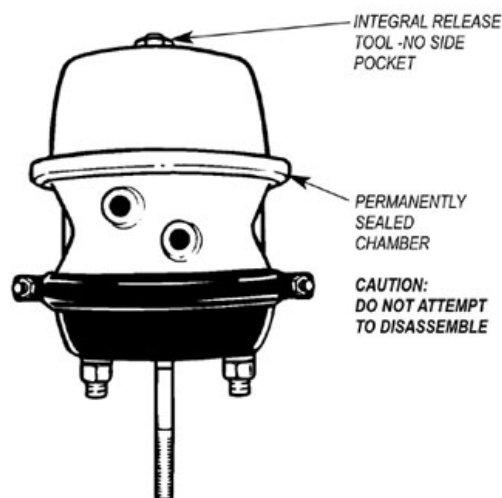


FIG 2 - Life Seal Spring Brake



Continued on next page

- Haldex manufactures a complete line of 3.0" (76 mm) stroke brake actuators. In some cases these are referred to as "Long Stroke" (L). In other cases they are referred to as "Extra Long Stroke" (XL). To avoid confusion, please refer to Table 1 below.

TABLE 1 STROKE MODELS

2.5" (64 MM) STROKE MODELS		3.0" (76 MM) STROKE MODELS	
COMBINATION	PIGGYBACK	COMBINATION	PIGGYBACK
GC2424L	GP2424 L	GC2430XL	GP2430XL
GC2430L	GP2430L	LC2430 L	LP2430 L
LC2430	LP2430	GC3030L	GP3030L
GC3030	GP3030	LC3030L	LP3030L
GC3036	GP3036		
GC3030	LP3030		

⚠ WARNING: NEVER interchange 3.0" (76 mm) stroke actuator components with 2.25" (57 mm) or 2.5" (64 mm) stroke components. Performance and stroke may be seriously affected.

⚠ WARNING: NEVER interchange spring brake manufacturers components. Performance and stroke may be seriously affected. Although spring brake manufacturers components look similar, they should never be interchanged.

- When servicing 3.0" stroke actuators, it is imperative that strict attention is paid to the components. These air brake actuators have push rod stroke capabilities in excess of the standard 2.25" (57 mm)* or 2.5" (64 mm) design. The serviceable components for these actuators are unique. They include the following:

*2.5" stroke T-24 diaphragm may be used in 2.25" stroke T-24 service brake applications.

- 1) Service Diaphragm
- 2) Service Housing
- 3) Service Pushrod
- 4) Complete Piggyback

- These components are uniquely identified as "Long Stroke", "LS", or "3.0" (76 mm) Stroke" on each component. The unique square bosses on the air inlet ports on the aluminum center body easily identify the spring brake as 3.0" (76 mm) stroke (Figure 3).

- To aid in the identification of Long Stroke brakes being used on vehicles, Haldex has decals available (Figure 3A). These decals can easily be attached to the side of the vehicle.

Labels can be purchased from your local Haldex Distributor.

FIG 3 - Gold Seal & Life Seal 3.0" (76 mm) Stroke Spring Brake

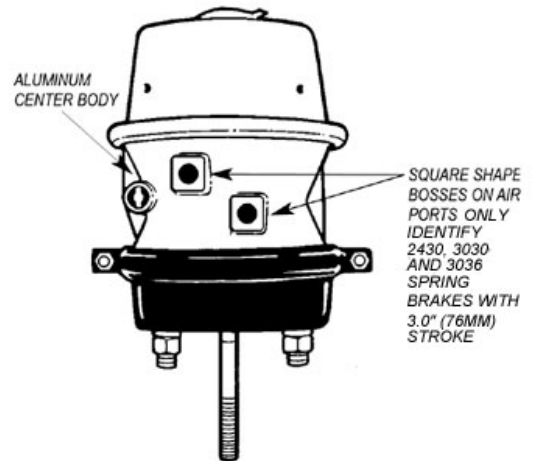
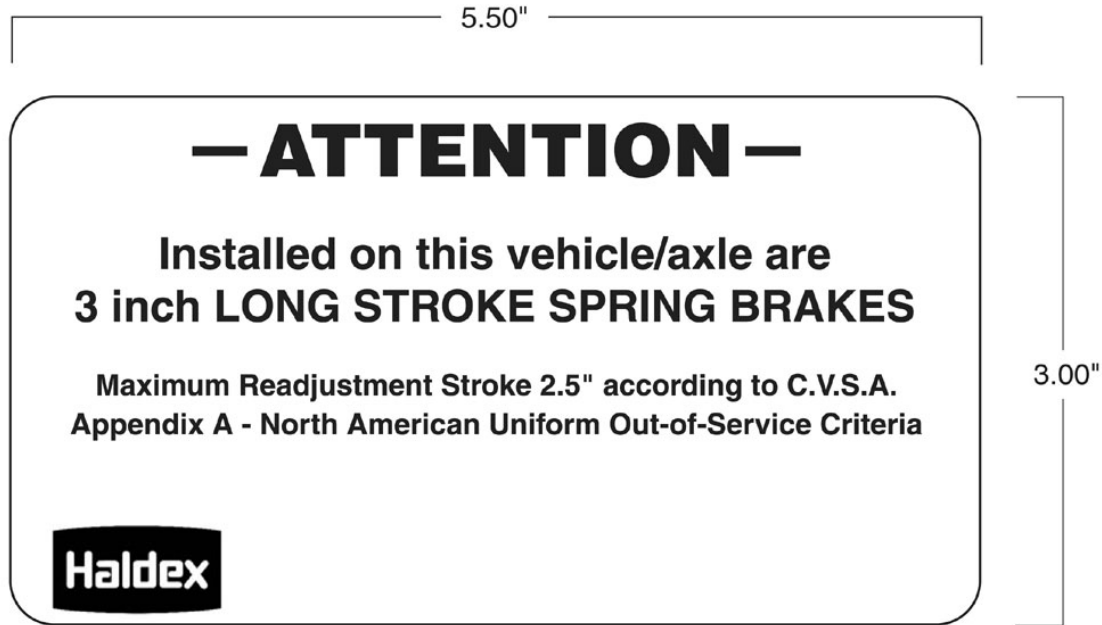


Figure 3A - Long Stroke Brake Alert Decal

L80033



L80034



Recommended Preventative Maintenance

- Preventative maintenance for Haldex Gold Seal and Life Seal combination spring brake models is recommended every three months or every 25,000 miles (40,000 km).

IMPORTANT: ALWAYS BLOCK WHEELS to prevent vehicle rollaway when performing any brake maintenance.

1. Check the conditions of the foundation brakes, including drums, shoes and linings, rollers, bushings, etc.
2. Check for structural damage of the spring brake, brake adjuster and s-cam. Replace if necessary.
3. **Gold Seal Models:**
Apply the parking brake. Remove the dust plug from the rear of the spring housing and physically inspect the condition of the parking spring. If the parking spring is broken, replace the spring brake with either a new piggyback unit or an entire unit. Please refer to Piggyback Installation pages or to Combination Spring Brake Installation pages for specific instructions (see Table of Contents for location).

IMPORTANT: ALWAYS replace dust plug after inspection.

Life Seal Models:

Mechanically release the parking brake and follow the procedure listed in Life Seal Mechanical Release section (see Table of Contents for location).

4. Apply the Service Brakes. Check the air lines and fittings for leaks. Check for proper torque according to Table 4 in Spring Brake Installation Instructions.
5. After allowing the brake drum to cool to room temperature, check for the correct spring brake stroke and verify proper installation. Proper installation can be verified by following the instructions listed in Spring Brake Installation Instructions.

Mechanical Release of Gold Seal Spring Brake

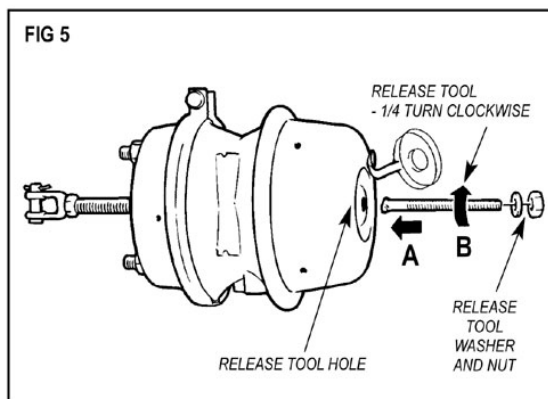
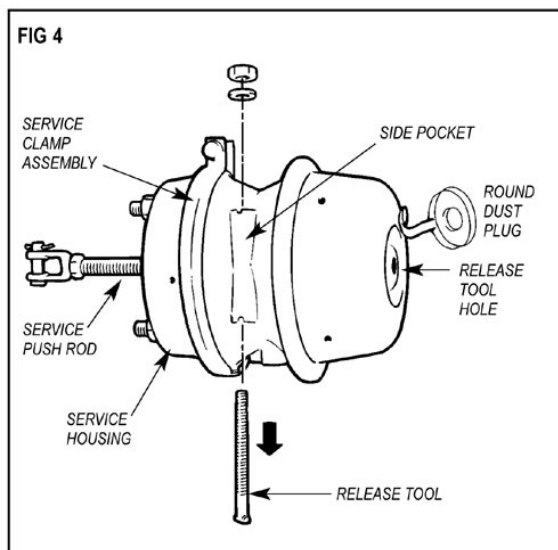
⚠ DANGER: Read this section carefully. Do not attempt to mechanically release (cage) the spring on a spring brake if it shows structural damage. Caging the spring or disassembly of the chamber may result in the forceful release of the spring chamber and its contents which could CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE. Remove complete spring brake and replace with new unit.

⚠ DANGER: DISARM spring chamber before discarding old brake. To disarm, use a suitable Safety Chamber (see Spring Brake Disarming Procedure). Failure to disarm assembly prior to disposal may, in time, result in spontaneous release of the spring chamber & its contents, which could CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

TO CAGE PARK BRAKE COMPRESSION SPRING (RELEASE PARK BRAKE)

IMPORTANT: ALWAYS BLOCK WHEELS to prevent vehicle rollaway when performing any brake maintenance.

1. Remove dust plug from release tool hole in center of spring housing (Figure 4).
2. Remove release tool assembly from side pocket of center body (Figure 4).
3. Insert release tool through key hole in chamber into the spring piston (Figure 5 Arrow A).
4. Turn release tool 1/4 turn clockwise (Figure 5 Arrow B).
5. Pull on release tool to ensure stud crosspin is properly seated in the spring piston.
6. Assemble release tool washer and nut on release tool, finger tighten only (Figure 5).



Continued on next page

⚠ DANGER: The below listed instructions only apply when spring brake is not pressurized. If air pressure is used to compress the spring, do not tighten release tool more than finger tight. Torquing the release tool nut while the spring brake is pressurized can cause spring piston damage resulting in sudden release of the spring which could CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE. Air pressure must be released after caging, prior to any disassembly.

7. a). Turn release tool nut clockwise with hand wrench (**DO NOT USE HIGH SPEED AND/OR POWER DRIVEN IMPACT WRENCH**) and make certain push rod is retracting (Figure 6).
7. b). This procedure will be made much easier if air pressure (100-120 PSIG; 6.6-8.0 BAR) is used to collapse the power spring before turning the release tool nut with a hand wrench. Proper caging will be complete when a slight resistance is felt after turning the release tool nut. Release the air pressure after caging prior to any disassembly.

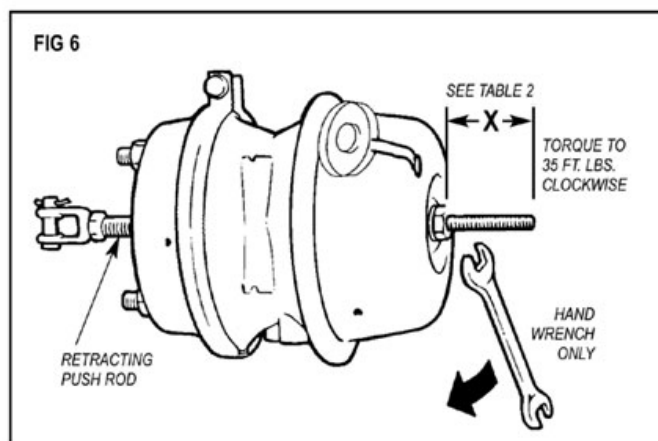
IMPORTANT: Do not over torque release tool assembly. Over torquing release tool can cause spring piston damage.

IMPORTANT: To insure the power spring is fully caged, the release tool length (X dimension) (Figure 6) should measure as shown in Table 2.

Table 2

Model	Stroke		X-Minimum	
	inch	mm	inch	mm
1624	2.25	57	2.9	74
2024	2.25	57	2.9	74
2424	2.25	57	2.9	74
2424	2.50	64	2.9	74
2430	2.25	57	2.9	74
2430	2.50	64	2.9	74
2430	3.00	76	3.4	86
3030	2.50	64	2.9	74
3030	3.00	76	3.4	86
3036	2.50	64	3.6	91
3036	3.00	76	2.4	61
3636	3.00	76	3.6	91

NOTE: If dimension of release tool (X dimension) length is less than the minimum measurement, then spring brake unit must be replaced.



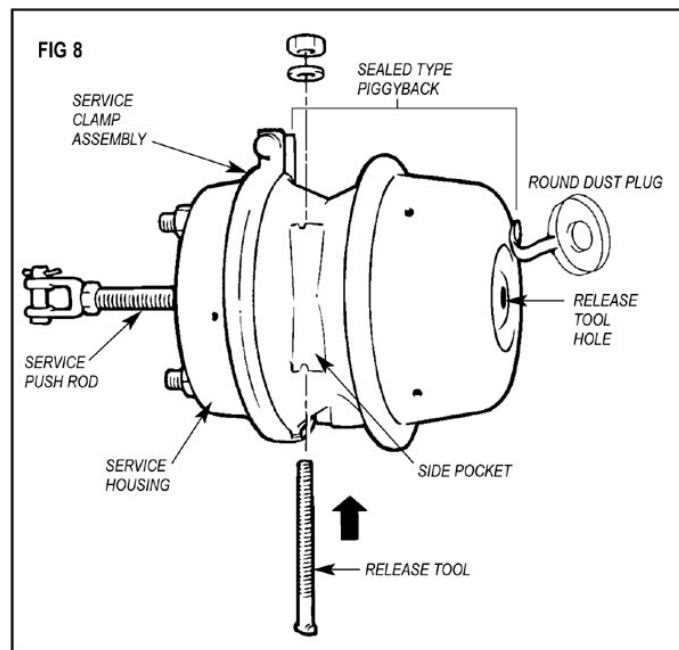
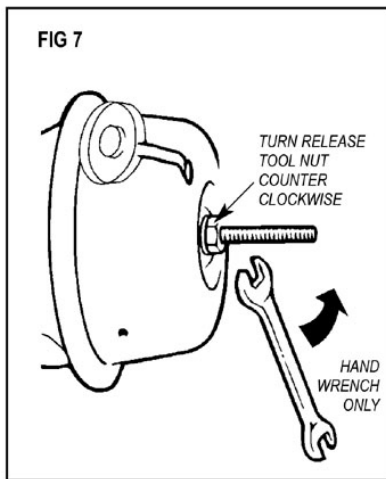
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TO UNCAGE PARK BRAKE COMPRESSION SPRING (APPLY PARK BRAKE)

1. Turn release stud nut counter clockwise with hand wrench (**DO NOT USE HIGH SPEED OR POWER DRIVEN IMPACT WRENCH**). This procedure will be made much easier if air pressure (100-120 PSIG; 6.6-8.0 BAR) is used to collapse the spring (*Figure 7*).
2. Remove release tool nut and washer.
3. Push release tool in, turn 1/4 turn counter clockwise and remove.
4. Place release tool in pocket with T-head down and washer and nut up (this allows the washer to protect the pocket from corrosive elements while allowing the pocket to drain around the T-head (*Figure 8*).
5. Torque the nut to 5-8 ft. lb. (6.8-10.8 Nm).
6. Install dust plug in release tool hole. Insert the plug into the hole in the housing and push firmly until the plug is securely in place.
7. Lift edge of tether plug to be sure the plug is firmly in place.

IMPORTANT: Always re-install tethered dust plug in release tool key hole. Failure to do so will result in corrosion and foreign particle ingestion through the hole which will void the warranty. Do not use excessive force when installing the plug. Excessive force may damage the plug and make it unusable.

Replacement tether plugs can be purchased from your local Haldex Distributor.



Mechanical Release of Life Seal Spring Brake

⚠ DANGER: The below listed instructions only apply when spring brake is not pressurized. If air pressure is used to compress the spring, do not tighten release tool more than finger tight. Torquing the release tool nut while the spring brake is pressurized can cause spring piston damage resulting in sudden release of the spring which could CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE. Air pressure must be released after caging, prior to any disassembly.

⚠ DANGER: DISARM spring chamber before discarding old brake. To disarm, use a suitable Safety Chamber (see Page 50). Failure to disarm assembly prior to disposal may, in time, result in spontaneous release of the spring chamber and its contents, which COULD CAUSE DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE.

TO CAGE PARKING SPRING (RELEASE PARK BRAKE)

IMPORTANT: ALWAYS BLOCK WHEELS to prevent vehicle rollaway when performing any brake maintenance.

IMPORTANT: Do not over torque release tool assembly. Over torquing release tool can cause spring piston damage. Life Seal S-Cam type 55 ft. lb. (74Nm) Maximum, Counter Clockwise.

1. a). Turn release tool nut counter clockwise with hand wrench (DO NOT USE HIGH SPEED AND/OR POWER DRIVEN IMPACT WRENCH) and make certain push rod is retracting (Figure 11).
1. b). This procedure will be made much easier if air pressure (100-120 PSIG; 6.6-8.0 BAR) is used to collapse the parking spring before turning the release tool nut with a hand wrench. Proper caging will be complete when a slight resistance is felt after turning the release tool nut. Release the air pressure after caging prior to any disassembly.

IMPORTANT: To ensure the power spring is fully caged, the release tool length (X dimension) (Figure 11) should measure as shown in Table 3.

TO UNCAGE PARKING SPRING (APPLY PARK BRAKE)

1. Turn release tool nut clockwise with hand wrench (DO NOT USE HIGH SPEED OR POWER DRIVEN IMPACT WRENCH). This procedure will be made much easier if air pressure (100-120 PSIG; 6.6-8.0 BAR) is used to collapse the spring.
2. Turn release tool nut until contact is made with the spring housing. Torque to 55 ft. lb. (74 Nm). Torque value is stamped on housing (Figure 12).

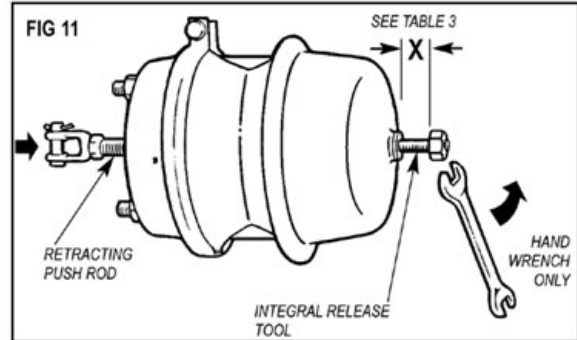
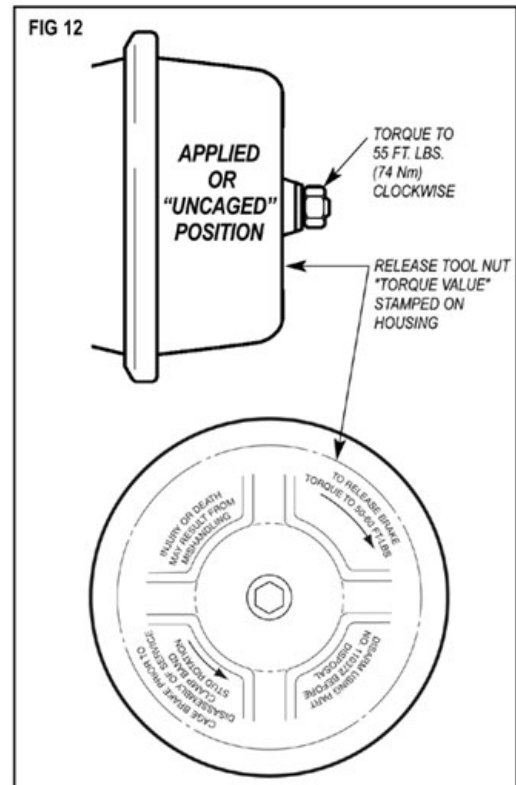


TABLE 3

CHAMBER TYPE	STROKE	X - MINIMUM	X - MAXIMUM
30	2 1/2" (64 mm)	2.40" (61 mm)	2.56" (65 mm)
30LS	3" (76 mm)	2.90" (74 mm)	3.06" (78 mm)

NOTE: If dimension of release tool (X dimension) length is less than the minimum measurement, the spring brake unit must be replaced.



INSTALLATION PREPARATION

IMPORTANT: Spring brake must be caged prior to performing installation procedures. If brake is not caged, follow steps for safety instructions and mechanical release of spring brake.

NOTE: In an effort to maximize the life of Haldex spring brakes, Haldex recommends the following brake mounting guidelines when installing Haldex spring brakes on your vehicle(s).

CUT PUSH ROD TO CORRECT INSTALLATION LENGTH

IMPORTANT: Before installing a new combination spring brake, it is necessary to determine the correct service push rod length to ensure proper alignment for efficient operation of the spring brake.

NOTE: Units are furnished with a universal fully threaded push rod and must be cut to the correct length.

IMPORTANT: Place blocks under wheels to prevent vehicle rollaway before removing spring brake actuators.

NOTE: If spring brake unit being replaced is not available to take measurements from, follow the procedures listed under Step 5.

1. Remove worn or non-functional spring brake unit from vehicle:

Determine manufacturer and model of unit to be replaced. Refer to that manufacturer's service manual for caging and removal instructions.

2. Make sure the parking spring of the removed actuator is fully released (parking spring caged) and the service brake push rod is fully retracted to zero stroke position (i.e. brake fully released).

3. Measure and record the "J" and "K" dimensions from unit to be replaced (Figure 13).

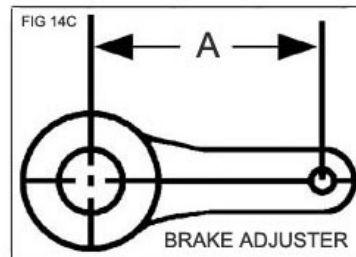
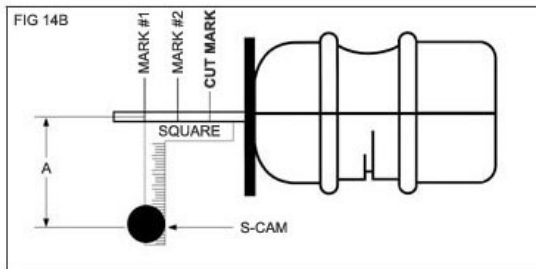
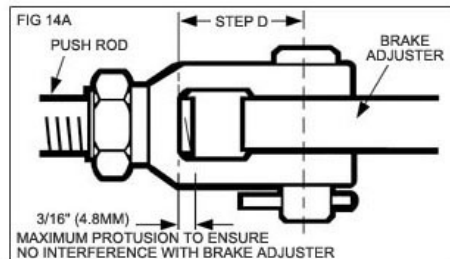
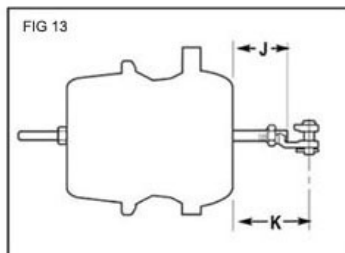
"J" dimension = The dimension from mounting face of actuator to end of push rod.

"K" dimension = The dimension from mounting face of actuator to centerline of clevis pin.

4. Take measured "J" dimension (Figure 13) from the **removed** unit and mark push rod of **new** unit to be cut.

NOTE: Step 5 lists the procedures to determine correct push rod length when the spring brake being replaced is not available. Move ahead to Step 6 if correct push rod length is already determined.

5. To determine the correct push rod length of the brake to be installed, measure the "B" dimension as shown (Figure 15) and subtract the setup stroke as listed in Table 5 of this section. With the spring brake fully caged: "B" minus Setup Stroke = Push Rod Length including Clevis. (Figure 16)



Continued on next page

NOTE: Setup stroke is only to establish push rod length. (See Step 6 of this section).

EXAMPLE:

For a typical Type 30 spring brake, if "B" (Figure 15) = 5.0 inches, setup stroke = 1 1/2 inches (Table 5, this section). The push rod length from mounting face to centerline of main clevis pin should measure: 5 minus 1 1/2 = 3 1/2 in. with the spring brake caged. (Figure 16)

- Before marking push rod to be cut on **new** unit, be sure the spring brake is caged and the push rod is fully retracted to the zero stroke position. **Refer to mechanical release instructions** for Gold Seal brakes and for Life Seal brakes.

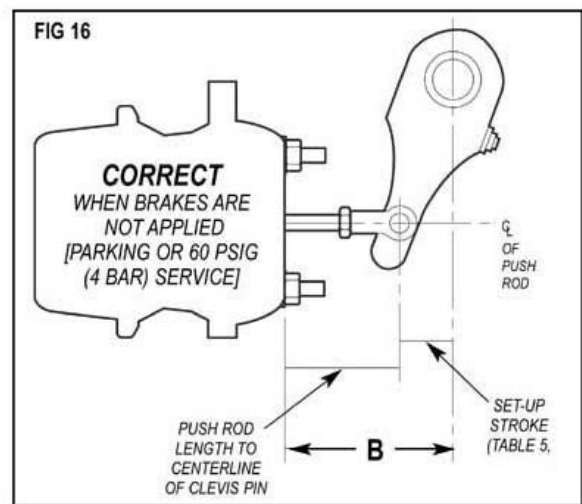
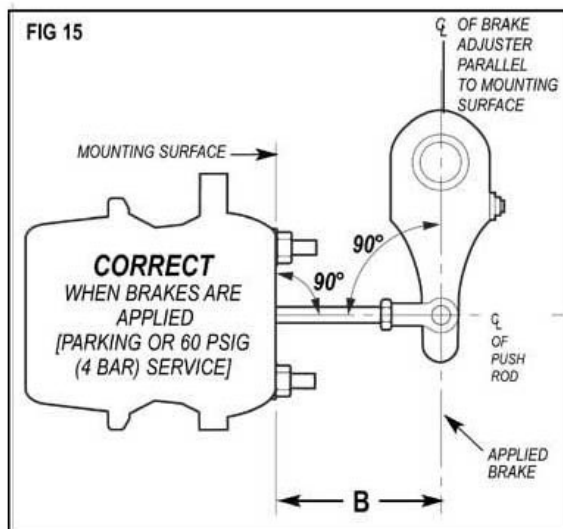
NOTE: When determining the push rod cut-off length, the length of the threaded rod protruding between the clevis legs must not exceed 3/16" (4.8 mm) to ensure no interference with the operation of the brake adjuster (Figure 14A).

- When preparing to install a spring brake chamber, ensure that the unit is fully released (power spring caged) and the service brake push-rod is fully retracted to zero stroke position. Thread the clevis jam nut onto the push-rod.
- Place the brake chamber into the appropriate brake assembly bracket. Tighten the holding nuts to the bracket studs (130 - 150 lb. ft.).
- Measure the distance from the centerline of the S-Cam to the centerline of the push-rod (Figure 14B - Dimension A). This measurement should be equal to the length of the brake adjuster being used (Figure 14C - Dimension A).

NOTE: If Dimension A - Figure 14B and Dimension A - Figure 14C are not identical, the chamber mounting bracket is either bent and must be straightened or replaced, the chamber has been mounted improperly in the bracket or the length of the adjuster installed is incorrect. Make any necessary corrections before going to Step D.

- Measure and record the length of clevis to be used. This measurement should be taken from the center of the clevis pin hole, to the bottom of the yoke assembly (Figure 14A).
- Using a square, mark the push-rod at the 90° setting (Figure 14B - Mark #1). From this mark, subtract the measurement recorded in Step D and make a second mark on the push-rod (moving toward the brake chamber mounting surface). (Figure 14B - Mark #2)
- From Mark #2, measure toward the brake chamber mounting surface the distance listed in Table 5 this section for the brake chamber type being installed. **Mark and cut the push-rod.**
- Install the clevis onto the push-rod and secure the jam nut (33 - 90 lb. ft.). Connect the clevis to the brake adjuster using the clevis pin and other pins (Figure 14A). Uncage the spring brake.
- Release spring brakes and adjust the brake adjuster to the manufactures recommendation.

Important Note: Some automatic brake adjusters require a slightly different rod length. Always refer to the original manufacturers installation guidelines.

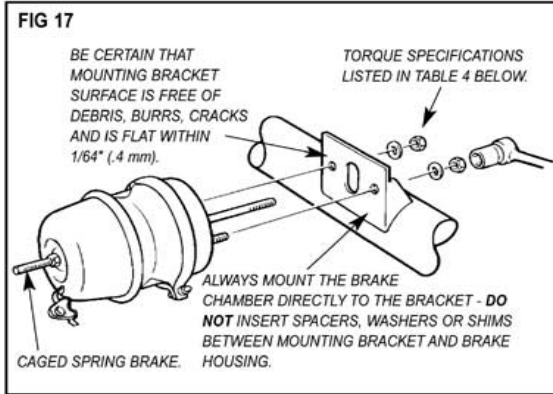


THIS SECTION)

MOUNTING SPRING BRAKE TO MOUNTING BRACKET

When attaching spring brakes to mounting brackets the following checks and instructions should be performed:

1. Mounting brackets must be inspected to assure that bracket surface is free from debris, burrs, cracks, weld spatter and is flat within 1/64" (.4 mm) (Figure 17).
2. Attach spring brake directly to mounting bracket on axle. Fasten with mounting hardware (Figure 17). Torque to specifications listed in Table 4 below.



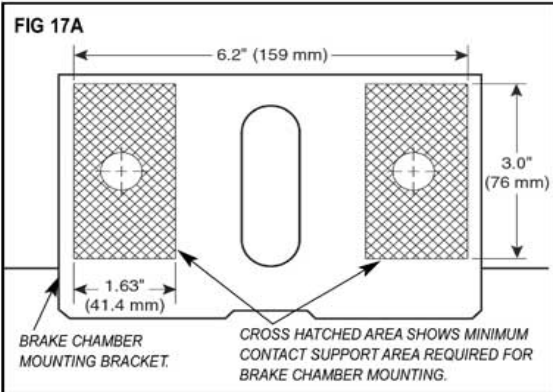
IMPORTANT: When mounting a spring brake to a horizontal axle bracket, as shown in Figure 17, the bracket must meet the minimum contact area (Figure 17A).

When the spring brake mounting bracket requires the studs to be in the vertical position (rotated 90° from horizontal), the contact area can be slightly less than the minimum contact area for horizontal mount.

IMPORTANT: Always mount brake chamber directly to bracket, if a reinforcement plate is necessary, follow the guidelines for plate attachment below. **DO NOT insert spacers, washers or shims between mounting bracket and brake housing.** (Figure 17) Consult the bracket manufacturer for your application to determine if a reinforcement plate is necessary.

DO NOT mount spring brake in a vertical position. The spring brake must be mounted within 45 degrees of horizontal (Figure 18A).

NOTE: In some cases it may be necessary to rotate air ports and/or clamp bands for proper clearance and installation on vehicle. (See Rotate Mounting Studs page for rotation instructions.)



REINFORCEMENT PLATE ATTACHMENT GUIDELINES

When attaching a reinforcement plate to the brake mounting bracket face the following guidelines must be followed:

1. Attach .25" (6 mm) steel plate 7" x 7" (178 mm x 178 mm) square, to brake mounting bracket face. Secure with (2) 5/8" or M16 bolts, washers and nuts, and torque to 50 ft. lb. (67.5 Nm) (Figure 18).
2. Weld reinforcement plate to brake mounting bracket (See Figure 19) for suggested weldment locations. For exact location and weld size, refer to axle manufacturer's guidelines. Allow welds to cool and remove bolts (Figure 19, on following page).
3. Attach spring brake directly to new reinforcement plate. Fasten with mounting hardware (Figure 20, on following page). Torque to specifications listed in Table 4 below.

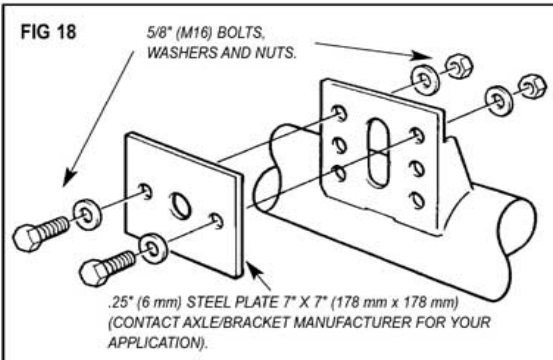
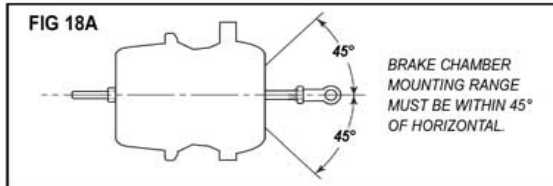


TABLE 4 INSTALLATION TORQUE VALUES

	TORQUE
Mounting Hardware	130-150 lb. ft. (177-203 Nm)
Jam Nut	15-25 lb. ft. (20-34 Nm)
Port Plug or Reducer	15-20 lb. ft. (20-27 Nm)
Air Fittings	25-30 lb. ft. (34-40 Nm)
LIFE SEAL - Release Tool Nut	55 lb. ft. (74 Nm)
GOLD SEAL - Release Tool Nut	25-35 lb. ft. (34-47 Nm)
GOLD SEAL - Release Tool Nut (in side pocket)	5-8 lb. ft. (7-11 Nm)
Carriage Bolt Nuts (for clamps)	20-30 lb. ft. (27-40 Nm)



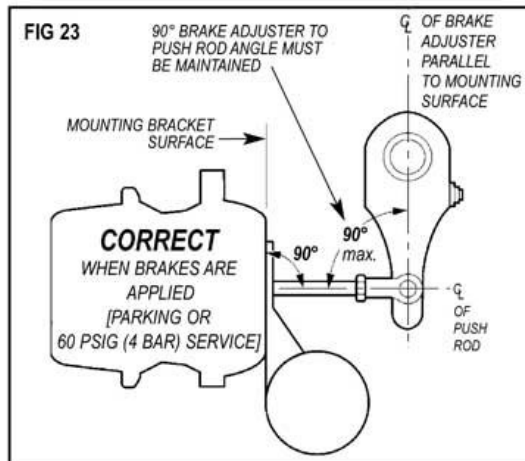
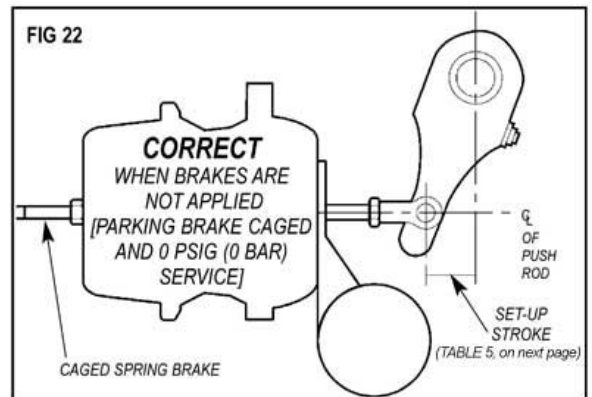
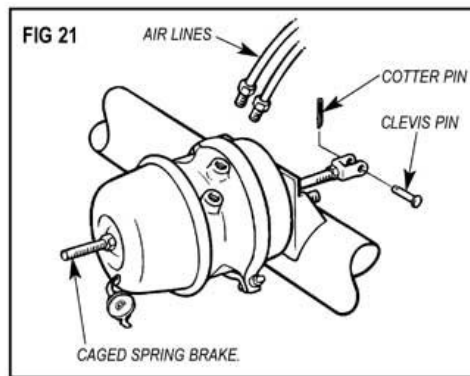
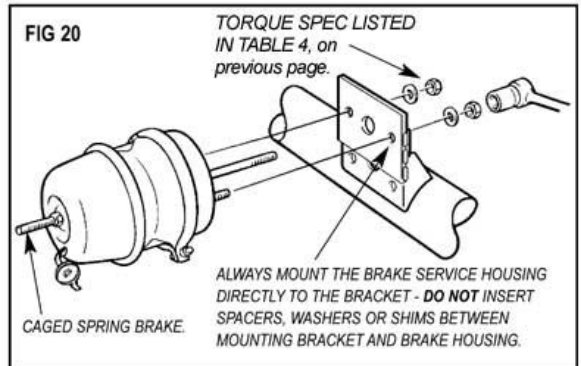
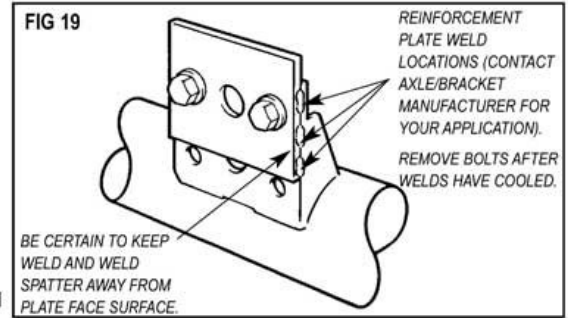
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ATTACH CLEVIS AND AIR LINES

1. Thread jam nut back onto the push rod a sufficient length to allow assembly of the clevis.
2. Thread clevis onto the push rod. Clevis from removed unit may be reused provided clevis pin hole is not worn. Adjust clevis to the same "K" dimension as measured from the removed unit (Figure 13, on previous page of this section).
3. Hold clevis to prevent it from turning and tighten jam nut against clevis to torque specifications. (See Table 4, previous page for Installation Torque Values). The clevis must be adjusted so that it has full thread engagement on the push rod (from flush to 3/16" (4.8 mm) protrusion). (Figure 14, previous page)
4. Connect the service and emergency air line to the proper air ports. Torque to specifications listed in Table 4, previous page.
5. Connect clevis to the brake adjuster using clevis and cotter pins, and uncage the spring brake. Refer to uncaging procedures in mechanical release instructions for Gold Seal brakes and for Life Seal brakes.

IMPORTANT: If push rod is not long enough to reach brake adjuster mounting hole, DO NOT physically pull push rod out to reach mounting hole.

6. Adjust the brake adjuster to the listed setup stroke (See Table 5, on next page). (Figure 22)



NOTE: ϕ of push-rod must remain perpendicular to the bottom surface of the stud housing within $\pm 3^\circ$ zero to full stroke.

Continued on next page

VERIFY PROPER INSTALLATION

1. With the brake applied, the following conditions must occur: a.) push rod 90° to the centerline of brake adjuster; b.) push rod 90° to the mounting face of the spring brake. (Figure 23, previous page).

**Table 5
Stroke Values**

Service Side Size / Type	Available Stroke		Recommended Stroke Range				Set-up Stroke	
	inch	mm	Minimum inch	mm	Maximum inch	mm	Applied Brake * **	
							inch	mm
9	1.75	44	Should be as short a stroke as possible without brake dragging.		1.38	35	1.00	25
12	1.75	44			1.38	35	1.00	25
16	2.25	57			1.75	44	1.38	35
16	2.50	64			2.00	51	1.50	38
20	2.25	57			1.75	44	1.38	35
20	2.50	64			2.00	51	1.50	38
20	3.00	76			2.50	64	1.75	44
24	2.25	57			1.75	44	1.38	35
24	2.50	64			2.00	51	1.50	38
24	3.00	76			2.50	64	1.75	44
30	2.50	64			2.00	51	1.50	38
30	3.00	76			2.50	64	1.75	44
36	3.00	76			2.25	57	1.75	44

* Stroke length measured by applying parking brake or 60 PSIG (4 Bar) service brake application

** Typical setup stroke values

NOTICE: For special applications consult vehicle, brake or brake adjuster manufacturers.

IMPORTANT: Incorrect push rod brake adjuster setup will result in improper brake operation.

2. If the setup results in the condition depicted in Figure 24 or Figure 25, the spring brake is misaligned and must be corrected by one or more of the following:

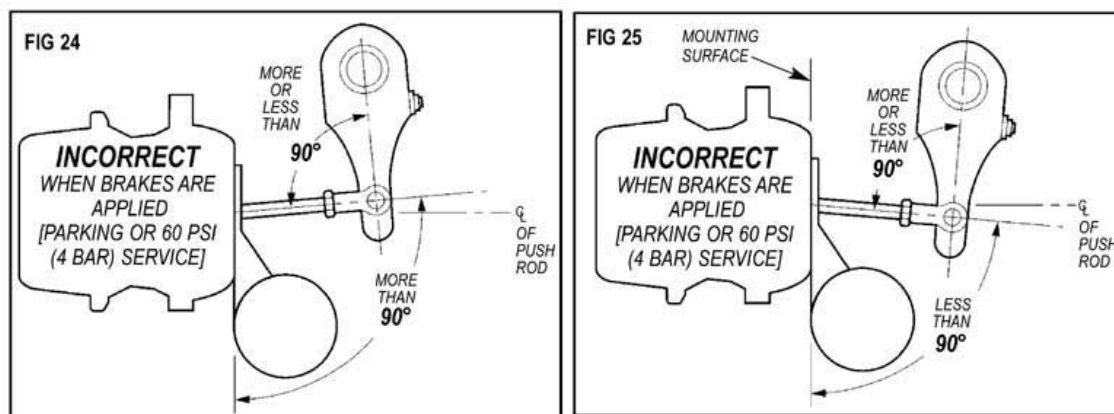
Figure 24 a.) shorten push rod, b.) align spring brake on mounting bracket, c.) mount clevis in proper brake adjuster hole.

Figure 25 a.) lengthen push rod, b.) align spring brake on mounting bracket, c.) mount clevis in proper brake adjuster hole.

If misalignment cannot be corrected, consult with foundation brake manufacturer for verification of correct mounting bracket position.

3. Once the spring brake and push rod are set properly (Figure 23, previous page), release the brakes and follow vehicle manufacturer's instructions for brake adjustment.

IMPORTANT: After installation, check for proper parking spring operation, service brake operation and brake adjustment.



TO REMOVE PIGGYBACK FROM SERVICE HOUSING

1. Refer to mechanical release instructions for Gold Seal, Life Seal & Midland brakes. (See Table of Contents for page numbers)

⚠ WARNING: Failure to comply with all instructions for mechanical release may result in the forceful release of the spring which COULD CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

2. If vehicle air pressure was used to aid in the caging process, exhaust the air pressure.
3. To prevent sudden release of service housing assembly and to facilitate rotation of air ports or mounting studs, the service push rod should be prevented from retracting by clamping the service push rod in place with vise grip pliers as shown (Figure 28a/b).
4. Disconnect the airlines from the air ports on the center body.
5. Remove service clamp assembly (Figure 28a/b).

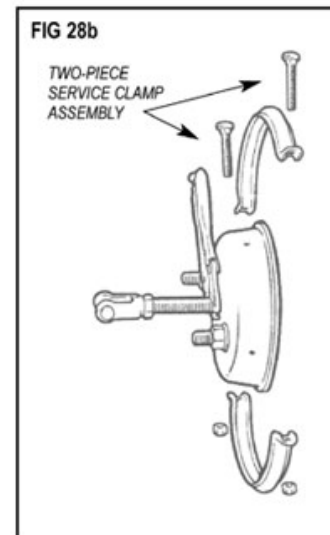
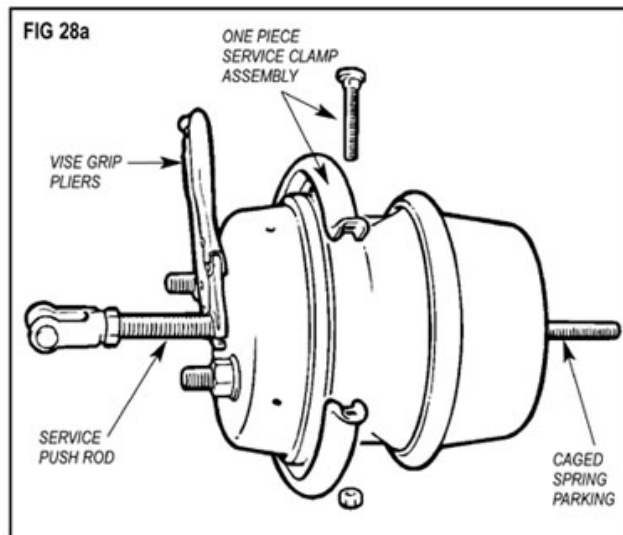
IMPORTANT: DO NOT bend the clamp assembly when removing.

TO INSTALL PIGGYBACK ON SERVICE HOUSING

1. If piggyback is not caged, follow steps in Gold Seal or Life Seal Mechanical Release pages.

⚠ WARNING: Failure to comply with all instructions for mechanical release may result in the forceful release of the spring which could CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

2. Before installing piggyback on existing non-pressure housing, inspect the clamp assembly, the service return spring, the service push rod and non-pressure housing. If any structural damage is noted, replace with new parts.
3. Wipe the surface of the service push rod clean of any oil, grease or dirt. Check to see that the bottom most vent holes in the housing are not plugged.

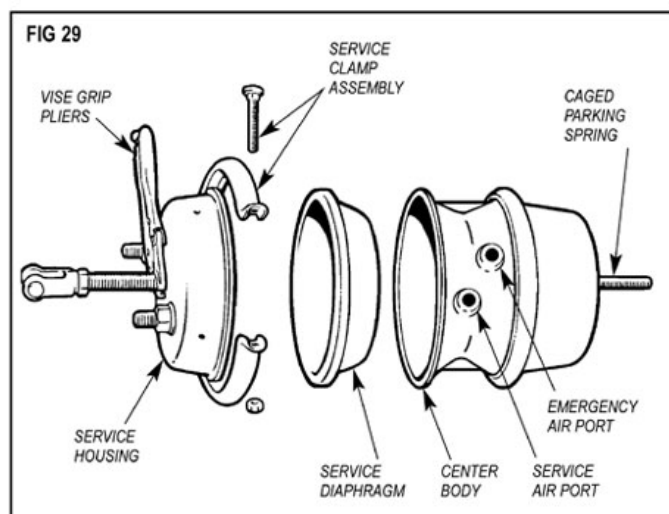


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IMPORTANT: It is recommended that a new service brake diaphragm be used when installing a new piggyback. DO NOT use a piloted diaphragm on the service side (a piloted "protrusion" diaphragm is designed to be used in the emergency spring chamber only). Use of a piloted diaphragm results in a reduction of stroke length.

4. Place the new service diaphragm in center body (as shown) & center the housing over the diaphragm & adapter lip (Figure 29).
5. Ensure that diaphragm is properly seated between the center body & housing lip & that the air ports are in the desired positions. When reinstalling the one-piece service clamp assembly (Figure 28a), torque the carriage nut to specifications listed in Table 4. When reinstalling the two-piece service clamp assembly (Figure 28b), tighten each nut equally, alternating every other turn. Torque each carriage nut to specifications listed in Table 4, on previous page. **DO NOT strike clamp or unit with a hammer.**
6. Check carriage bolts and clamp assembly for proper seating around the adapter and housing lip, and remove vise grip pliers previously clamped around the service push rod to prevent it from retracting.
7. Reconnect the air lines to the air ports on the adapter, making sure to connect the proper lines to the service and emergency ports (Figure 29). Torque to specifications listed in Table 4, on previous page.
8. Apply a maximum of 120 PSIG (8 BAR) air to the service port and check diaphragm seal for leakage by applying a water and soap solution to the service clamp area. (No leakage allowed).
9. Uncage power spring. Refer to uncaging instructions in Gold Seal or Life Seal Mechanical Release section.

IMPORTANT: After reassembly, check for proper emergency and service brake operation. For brake adjustment, follow vehicle manufacturer's instructions.

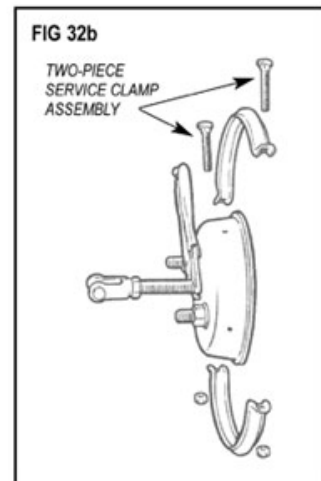
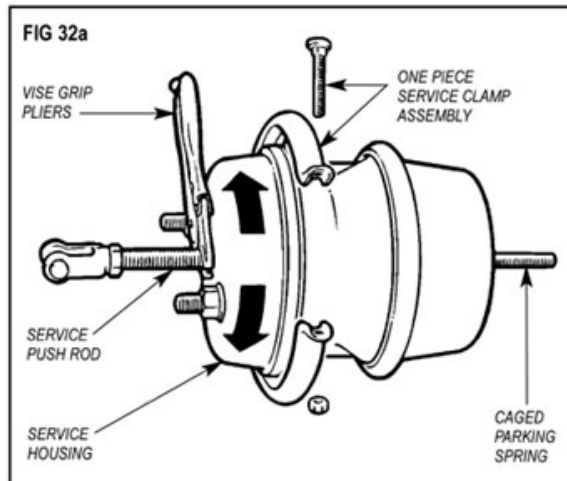


TO ROTATE SERVICE HOUSING MOUNTING STUDS

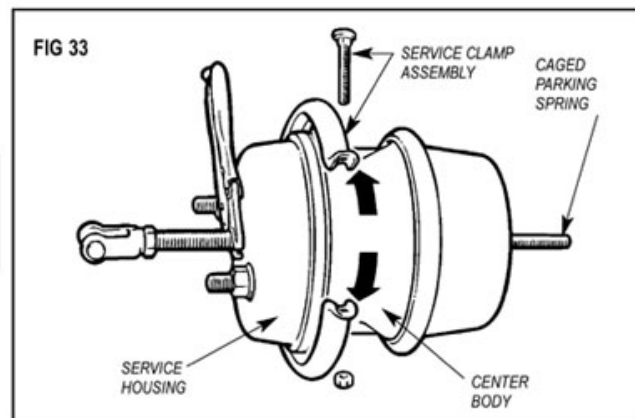
1. For Mechanical Release of Spring Brakes, see instructions in Gold Seal or Life Seal Mechanical Release section.

⚠ DANGER: Failure to comply with all instructions for mechanical release may result in the forceful release of the spring which could CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

2. If vehicle air pressure was used to aid in the caging process, exhaust the air pressure.
3. To prevent sudden release of service housing assembly and to facilitate rotation of air ports or mounting studs, the service push rod should be prevented from retracting by clamping the service push rod in place with vise grip pliers as shown (Figure 32a/b).
4. Remove service clamp/carriage bolt and rotate service housing (Figure 32a/b) or center body (Figure 33) to desired position.
5. Ensure that diaphragm is properly seated between the center body and housing lip and that the air ports are in the desired positions. When reinstalling the one-piece service clamp assembly (Figure 32a), torque the carriage nut to specifications listed in Table 4. When reinstalling the two-piece service clamp assembly (Figure 32b), tighten each nut equally, alternating every other turn. Torque each carriage nut to specifications listed in Table 4, on previous page. **DO NOT strike clamp or unit with a hammer.**
6. Check carriage bolts and clamp assembly for proper seating around the center body and housing lip, and remove vise grip pliers previously clamped around the service push rod to prevent it from retracting.
7. Apply a maximum of 120 PSIG (8 BAR) air pressure to the service port and check seal for leakage by applying a water and soap solution to the service clamp area (No leakage is allowed).
8. Uncage power spring. Refer to uncaging instructions in Gold Seal or Life Seal Mechanical Release section. (See Table of Contents for page number.)



⚠ WARNING: After reassembly, check for proper emergency and service brake operation. For brake adjustment, follow vehicle manufacturer's instructions.



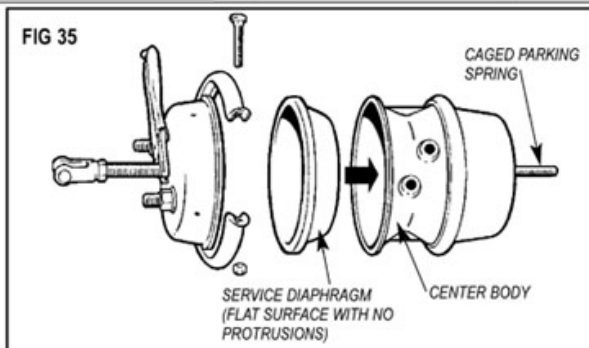
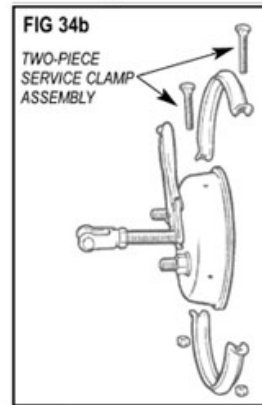
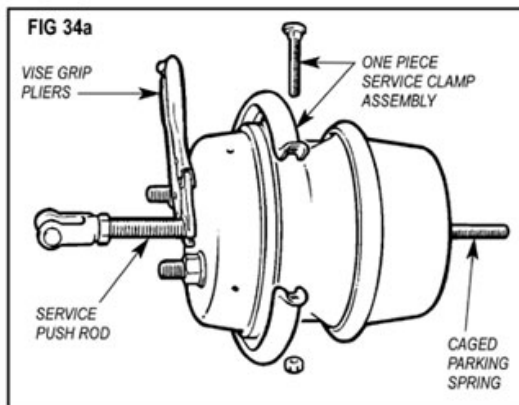
1. For mechanical release of spring brakes, see instructions in Gold Seal or Life Seal Mechanical Release Section.

⚠ DANGER: Failure to comply with all instructions for mechanical release may result in the forceful release of the spring which could CAUSE DEATH, SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

2. If vehicle air pressure was used to aid in the caging process, exhaust the air pressure.
3. To prevent sudden release of the piggyback or service push rod assembly and to facilitate the installation of the new diaphragm, the service push rod should be prevented from retracting by clamping the service push rod in place with vise grip pliers as shown (Figure 34a/b).
4. Remove service clamp assembly and discard old diaphragm.
5. Inspect the service clamp assembly, the center body wall and lip, the housing, the service return spring and service push rod. If any structural damage is noted, replace with new part.
6. Wipe the surface push rod plate clean of any oil, grease or dirt.
7. Place the new service diaphragm in center body and center the housing over the diaphragm and center body (Figure 35).

IMPORTANT: It is recommended that a new service brake diaphragm be used when installing a new piggyback. DO NOT use a piloted diaphragm on the service side (a piloted "protrusion" diaphragm is designed to be used in the emergency spring chamber only). Use of a piloted diaphragm results in a reduction of stroke length.

8. Ensure that diaphragm is properly seated between the center body and housing lip and that the air ports are in the desired positions. When reinstalling the one-piece service clamp assembly (Figure 34a), torque the carriage nut to specifications listed in Table 4. When reinstalling the two-piece service clamp assembly (Figure 34b), tighten each nut equally, alternating every other turn. Torque each carriage nut to specifications listed in Table 4, on previous page. **DO NOT strike clamp or unit with a hammer.**
9. Check carriage bolts and clamp assembly for proper seating around the center body and housing lip, and remove vise grip pliers previously clamped around the service push rod to prevent it from retracting.
10. Apply a maximum of 120 PSIG (8 BAR) air pressure to the service port and check diaphragm seal for leakage by applying a water and soap solution to the service clamp area (No leakage is allowed).
11. Uncage power spring - instructions in Gold Seal or Life Seal Mechanical Release section (see Table of Contents for location).



IMPORTANT: After reassembly, check for proper emergency and service brake operation. If installed on vehicle, check brake adjustment by following vehicle manufacturer's instructions.

Disarming Procedures: Piggyback & Combination Service/Spring Brakes

⚠ DANGER: A Piggyback or Combination Service/Spring Brake must be disarmed before disposal, or forceful release of the power spring may occur in the future without warning.

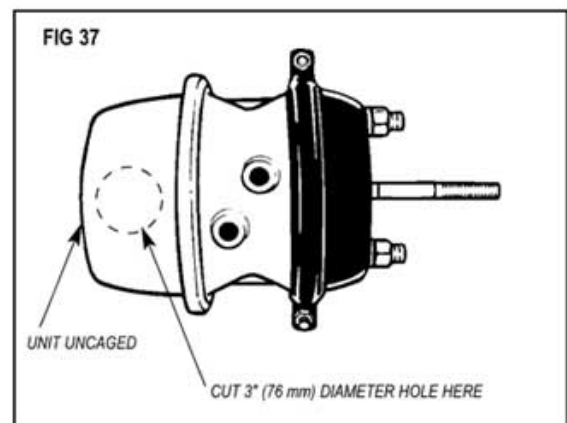
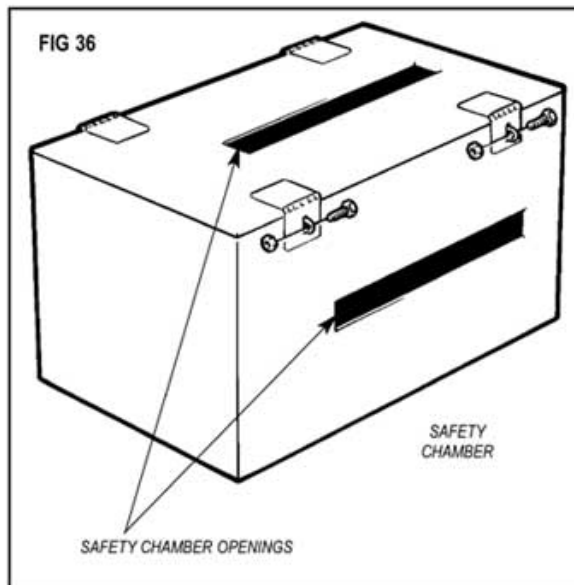
NOTE: A detailed drawing of the Safety Chamber is available free-of-charge upon request. Contact Haldex Engineering Department at 800-643-2374. (Drawing #110372)

1. Remove the caged Piggyback or Combination Service/Spring Brake from vehicle, after removal uncage the parking spring.
2. Open the lid of the Safety Chamber and place the uncaged Piggyback or Combination Service/Spring Brake inside the chamber, close lid and lock hinges in place with bolts as shown (Figure 36).

NOTE: Service push rod may need to be cut in order to fit a Combination Service/Spring Brake into the Safety Chamber (Figure 36).

3. While wearing safety glasses use an acetylene cutting torch and cut a 3" (76 mm) diameter hole (Figure 37) out of the Spring Brake chamber wall through one of the openings in the Safety Chamber (Figure 36).
4. Once the power spring is exposed, use the acetylene cutting torch to cut the exposed spring in one or more places until the compression spring pieces can be moved around inside the Spring Brake chamber with a long screwdriver or similar tool through the disarming chamber openings.
5. Once the power spring pieces can be moved around inside the Spring Brake, the disarming process is complete and the piggyback can be removed from the Safety Chamber after it has cooled down. The unit can be submersed in water to cool it quickly.

⚠ WARNING: Cutting of the Spring Brake Chamber with an acetylene torch can result in harmful fumes. Do not breathe these fumes. All cutting should be done outside or in a well ventilated area. After cutting the chamber, submerge it in water to cool. If the disarmed unit is not cooled, it will emit additional fumes and it could start a fire if stored near combustible material.



IMPORTANT: All Haldex brake chambers are equipped with a stroke indicator which meets October 1994 FMVSS-121 requirements. Please read the following information carefully and familiarize yourself with the operation of this feature.

WHAT IS A STROKE INDICATOR?

An Haldex Orange Alert stroke indicator is an orange knurled band located on the service push rod. This band is permanently embossed on the push rod and painted (Figure 38).

The orange band (stroke indicator) is normally inside the brake chamber (Figure 38) and will only start to protrude outside of the mounting face of the service housing when the spring brake or service chamber has only 20% of stroke remaining (Figure 39).

HOW TO USE A STROKE INDICATOR

IMPORTANT: A stroke indicator is not intended to be used as the only indicator of when to adjust the brakes on a vehicle. For brake adjustment, follow vehicle manufacturer's instructions.

At the point where the leading edge of the stroke indicator is level with the mounting face of the service housing, as shown (Figure 39), the combination spring brake or service chamber has only 20% of available stroke remaining. (See Table 6 below).

When the stroke indicator becomes visible, maintenance is required. The brake may need adjustment, or it may require component replacement.

IMPORTANT: Depending on the location and type of mounting bracket used, it may be difficult to observe the stroke indicator's protrusion once the spring brake or service chamber has been mounted to the vehicle.

IMPORTANT: When disassembly of the Haldex Spring Brake is required, consult the Gold Seal or Life Seal Mechanical Release instructions. (See Table of Contents for location).

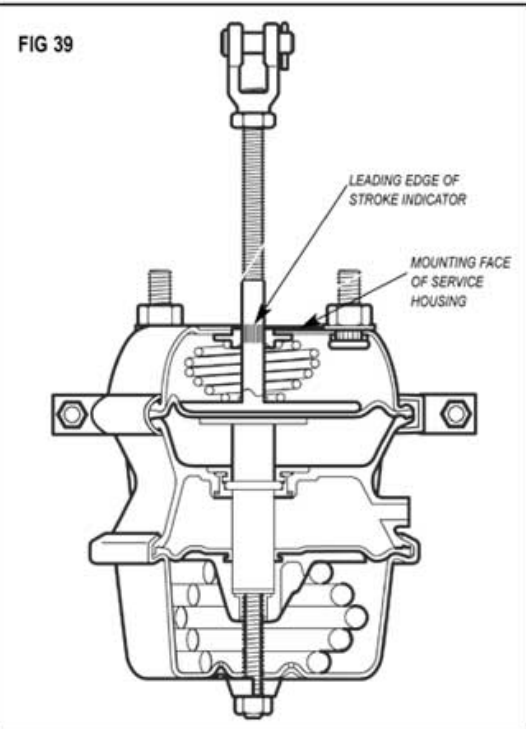
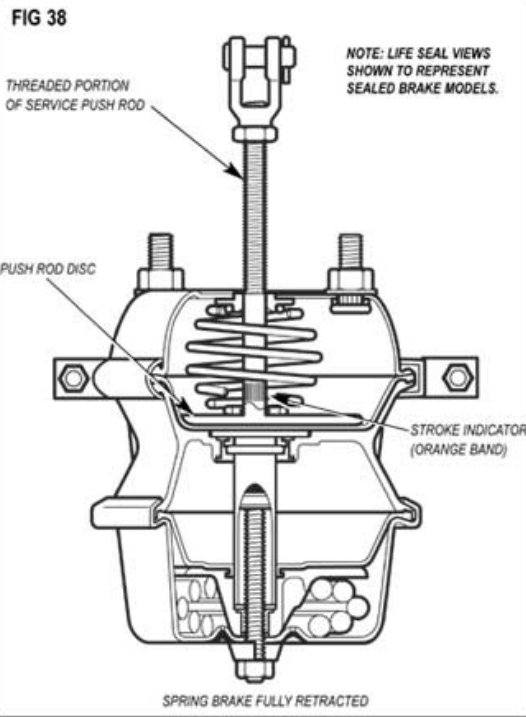


Table 6
Recommended Brake Re-Adjustment Stroke

Service Side	Available Stroke		Re-Adjust Stroke	
	inch	mm	inch	mm
9	1.75	44	1.38	35
12	1.75	44	1.38	35
16	2.25	57	1.75	44
16	2.50	64	2.00	51
20	2.25	57	1.75	44
20	2.50	64	2.00	51
20	3.00	76	2.50	64
24	2.25	57	1.75	44
24	2.50	64	2.00	51
24	3.00	76	2.50	64
30	2.50	64	2.00	51
30	3.00	76	2.50	64
36	3.00	76	2.25	57

Actuator Date Code Change

For standardization and consistency, Haldex is modifying the date code format on all brake actuators produced after November 1, 2004. The date code will remain in the same location on all actuators.

The new date codes can be interpreted using the following information:

Day of Year	Shift	Year	Location
DDD Days running of the year	S A = First Shift B = Second Shift C = Third Shift	YY Two Digit Year	L A = Apodaca (Monterrey), Mexico K = Iola, Kansas

For example, a date code of 307A04A would translate to Tuesday, November 2, 2004, First Shift, Apodaca (Monterrey), Mexico.

Date codes on actuators built in Apodaca (Monterrey), Mexico (formerly Anchorlok) between June 1, 1990 and October 31, 2004, can be interpreted using the following information.

Market	Day of Year	Year	Run No.
O O = OEM D = Distributor	DDD Days running of the year	YY Two Digit Year	XX Production run

Date codes on actuators built in Iola, Kansas (formerly Midland) prior to November 1, 2004 can be interpreted using the following information.

Day of Year	Shift	Year	Location
DDD Days running of the year	S A = First Shift B = Second Shift C = Third Shift	Y Single Digit Year	L K = Iola, Kansas

If you have questions about this date code change or other Haldex Actuator technical issues, please contact your local Haldex Sales Professional.

Notes

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Haldex develops and provides reliable and innovative solutions with focus on brake and air suspension products to the global commercial vehicle industry.

Listed on the Stockholm Stock Exchange, Haldex has annual sales of 3.7 billion SEK and employs 2,200 people.

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Austria

Haldex Wien Ges.m.b.H.
Vienna
Tel.: +43 1 8 69 27 97
Fax: +43 1 8 69 27 97 27
E-Mail: info.AT@haldex.com

Belgium

Haldex N.V.
Balegem
Tel.: +32 9 363 90 00
Fax: +32 9 363 90 09
E-Mail: info.BE@haldex.com

Brazil

Haldex do Brazil
São Paulo
Tel.: +55 12 3935 4000
E-Mail: info.BR@haldex.com

Canada

Haldex Ltd.
Cambridge, Ontario
Tel.: +1 519 621 6722
Fax: +1 519 621 3924
E-Mail: info.CA@haldex.com

China

Haldex International Trading Co. Ltd.
Shanghai
Tel.: +86 21 5240 0338
Fax: +86 21 5240 0177
E-Mail: info.CN@haldex.com

France

Haldex Europe SAS
Weyersheim (Strasbourg)
Tel.: +33 3 88 68 22 00
Fax: +33 3 88 68 22 09
E-Mail: info.EUR@haldex.com

Germany

Haldex Brake Products GmbH
Heidelberg
Tel.: +49 6 221 7030
Fax: +49 6 221 703400
E-Mail: info.DE@haldex.com

Hungary

Haldex Hungary Kft.
Szentlőrincváta
Tel.: +36 29 631 300
Fax: +36 29 631 301
E-Mail: info.HU@haldex.com

India

Haldex India Limited
Nasik
Tel.: +91 253 2380094
Fax: +91 253 2380729

Italy

Haldex Italia Srl.
Biassono (Milan)
Tel.: +39 039 47 17 02
Fax: +39 039 27 54 309
E-Mail: info.IT@haldex.com

Korea

Haldex Korea Ltd.
Seoul
Tel.: +82 2 2636 7545
Fax: +82 2 2636 7548
E-Mail: info.HKR@haldex.com

Mexico

Haldex de Mexico S.A. De C.V.
Monterrey
Tel.: +52 81 8156 9500
Fax: +52 81 8313 7090

Poland

Haldex Sp. z.o.o.
Praszka
Tel.: +48 34 350 11 00
Fax: +48 34 350 11 11
E-Mail: info.PL@haldex.com

Russia

OOO "Haldex RUS"
Moscow
Tel.: +7 495 747 59 56
Fax: +7 495 786 39 70
E-Mail: info.RU@haldex.com

Spain

Haldex España S.A.
Granollers
Tel.: +34 93 84 07 239
Fax: +34 93 84 91 218
E-Mail: info.ES@haldex.com

Sweden

Haldex Brake Products AB
Landskrona
Tel.: +46 418 47 60 00
Fax: +46 418 47 60 01
E-Mail: info.SE@haldex.com

United Kingdom

Haldex Ltd.
Newton Aycliffe
Tel.: +44 1325 310 110
Fax: +44 1325 311 834
E-Mail: info.GBAy@haldex.com

Haldex Brake Products Ltd.
Redditch
Tel.: +44 1527 499 499
Fax: +44 1527 499 500
E-Mail: info.GBRe@haldex.com

USA

Haldex Brake Products Corp.
Kansas City
Tel.: +1 816 891 2470
Fax: +1 816 891 9447
E-Mail: info.US@haldex.com



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