



PRODUCT CATALOG





100 New England Avenue • Piscataway, NJ 08854

STRATO SUPPORT PERSONNEL

To ensure the most prompt response, please email all inquiries directly to our Customer Service inbox:

customerservice@stratoinc.com

P: 800-792-0500

F: 732-981-1222

Chelsea Van Ess

Customer Service Supervisor
email: cvaness@stratoinc.com

Kyle Foxx

Inside Sales /Customer Account Manager
email: kyfoxx@stratoinc.com

Katie Foxx-Geoghan

Customer Account Manager
email: klfoxx@stratoinc.com

Dawn Herman

Customer Account Manager
email: dherman@stratoinc.com

Kelly Foxx

Director of Sales, Inventory
& Operations Planning
email: kfoxx@stratoinc.com



Phone: 732-981-1515 | Fax: 732-981-1222

Toll-Free Phone: 1-800-792-0500 | Toll-Free Fax: 1-800-378-7286



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Strato meets the requirements of the Association of American Railroads for AAR M-618 hose and AAR M-927 fittings. We also comply with the AAR M-619 Performance Specification.

- AAR M-1003 Quality Assurance Certification.
- Must be approved as an assembler of this product under AAR M-1003.
- Have the necessary test equipment to conform to these specifications.
- Have yearly audits by the AAR.

**To “Exceed the Need” of the railroad industry for this product line
STRATO has set high standards.**

- Management System Registered to ISO-9001: 2015.
- Apply serialized ID tags for every hose and part number rings as required.
- Assist customers with prototype application and attend Sample Car inspections.
- Continuous testing to real world conditions and actual car applications.
- Same day shipping.
- Multi-million dollar inventory to service the industry.
- Continuous involvement with the AAR and attendance at committee meetings.
- Standardization in the industry.
- Develop new products and get approval through the AAR.
- Improve the product line through testing.

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GENERAL INSTRUCTIONS & SAFETY GUIDELINES



GENERAL INSTRUCTIONS & SAFETY GUIDELINES

IT IS IMPORTANT TO UNDERSTAND THIS INSTALLATION AND SAFETY GUIDE AND OTHER INDUSTRY GUIDELINES FOR THE USE OF HOSE ASSEMBLIES

Scope:

The installation and safety guide provides instructions for selecting and using hose assemblies. This guide should be used as a supplement to industry guidelines and Strato's catalog.

Fail-Safe:

Hose assemblies can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode so that failure of the hose assembly will not endanger people or property.

Distribution:

Provide a copy of this installation and safety guide to each person that is responsible for selecting or using hose assemblies. Do not select or use hose assemblies without reading and understanding this installation and safety guide and other industry guidelines for the use of hose assemblies.

User Responsibility:

All Strato hose assemblies, couplings and fittings meet AAR specifications where applicable. Due to the wide variety of operating conditions and uses for hose assemblies, Strato does not represent or warrant that any particular hose assembly is suitable for any end use. This guide does not analyze all technical parameters that must be considered in selecting a product. The user through their own analysis and testing is solely responsible for:

- Making the final selection of the hose assembly.
- Assuring that the user's requirements are met and that the use presents no safety hazards.
- Providing all appropriate safety warnings on the equipment on which the hose assemblies are being used.

Caution:

Always use the proper safety appliance while installing or removing any hose assembly. Never remove or disconnect a hose assembly while it is under pressure. Always ensure that the proper torque is being used when tightening fittings or bolts for flange fittings.

Additional Questions

Customer Service can be reached at the number below. Field engineers are available for retrofits and specific application questions.

Customer Service - Phone: (800)792-0500 Fax: 732-981-1222

customerservice@stratoinc.com

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AIR BRAKE HOSE ASSEMBLY SELECTION AND SAFETY GUIDELINES

Extreme care should be taken when determining the proper hose assembly for an application. The following information, used with Strato's product literature and industry guidelines, should be carefully considered. Failure to follow the instructions in this section will reduce the life of a hose assembly, affect equipment performance, and cause hazardous conditions.

Electrical Conductivity:

Strato's hose assemblies should not be used where electrical conductivity could be or is a factor.

Pressure:

Hose assembly selection must be made so that the published maximum recommended working pressure is equal to, or greater than, the maximum system pressure.

Temperature:

Be certain that the system and ambient temperatures, both steady and transient, do not exceed the limitations of the hose assembly per AAR Standard S-2036-83, air brake components must not exceed 140°F. Care must be taken to route hose assemblies away from hot or cold objects such as manifolds. At severe cold temperatures, hose assemblies may leak.

Fluid Compatibility:

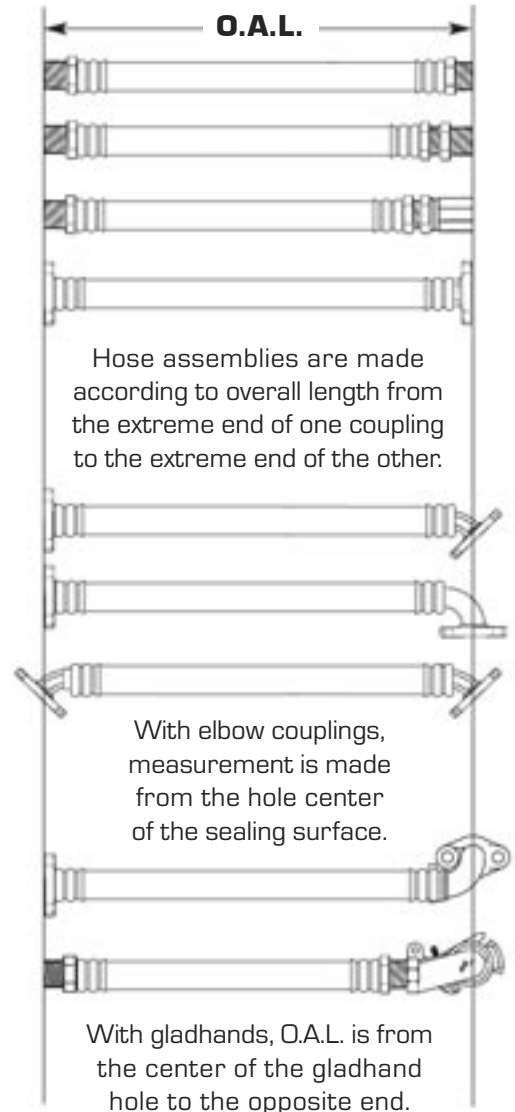
Hose selection must assure compatibility of the hose tube, cover, and reinforcements.

Flanged Assemblies:

Care must be taken in design and replacement of flanged assemblies to assure that a gasket fitting is always connected to a non-gasket fitting. All Strato gasket style weld fittings have a groove behind the flange (manufactured during 1996 or later). All Strato hose fittings are manufactured with a gasket groove.

LENGTH TOLERANCE FOR HOSE ASSEMBLIES

| Length | Tolerance |
|-----------|-----------|
| Up to 36" | ± 1/4" |
| Over 36" | ± 1% |



MEASURING TWIST

When two elbow fittings are used, the degree of offset must be specified. Offset is determined by the number of degrees measured in a counter clockwise direction between the fitting nearest the viewer and the farthest fitting.

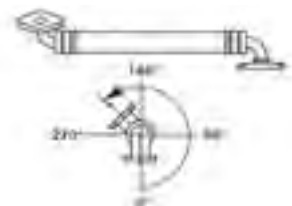
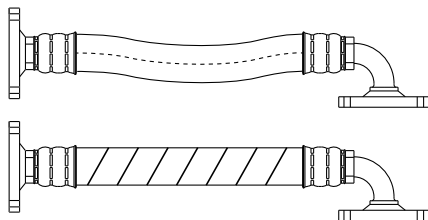


Image Represents 225°

HOSE INSTALLATION

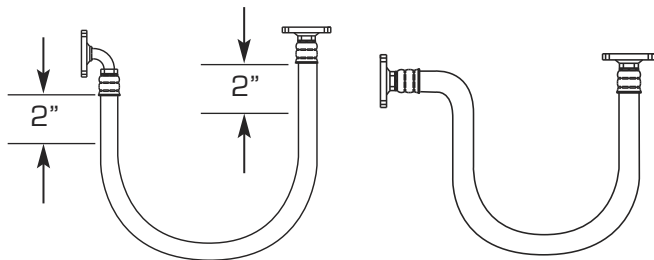
Satisfactory performance and appearance depend upon proper hose installation. Improper length or installation can cause hose assemblies to kink and even close off completely. Allow for some slack in the hose assembly and after installation make sure the hose is not twisted by looking at the layline writing in the hose.



RIGHT

WRONG

Avoid sharp twists or bends in the hose by using the proper angle adapters or elbow fittings. The recommended bend radius of the hose should not be exceeded. Allow enough hose to avoid bending the hose within two inches from the back of the fitting.



RIGHT

WRONG

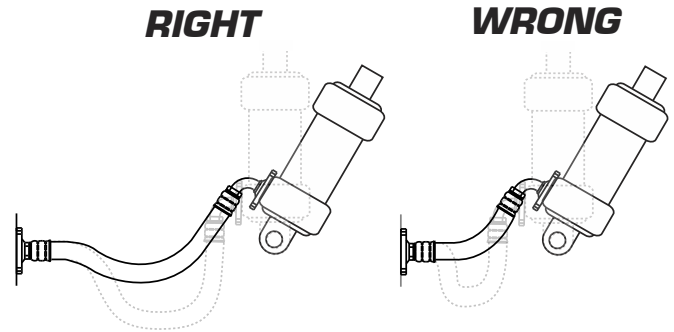
MINIMUM BEND RADIUS BY HOSE SIZE

| Hose I.D. | Min. Bend Radius |
|-----------|------------------|
| 1/2" | 3" |
| 5/8" | 3.5" |
| 7/8" | 4.5" |
| 1-1/8" | 6.5" |
| 1-3/8" | 8.5" |

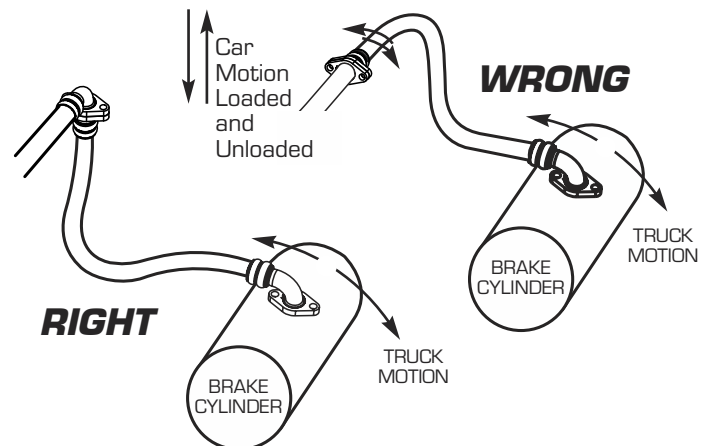
An external guard is available where external abrasion cannot be avoided.

INSTALLATION WITH MOTION

Adequate hose length is most important to distribute movement on flexing applications. Ensure two inches are left behind the fitting before the bend starts and that minimum bend radius is not exceeded before or after flexing.



Shown below is a typical Truck Mounted Brake application where movement exists at each end of the hose assembly. Hose bends and motion in all applications should be in one plane. This will prevent torquing and distortion of the hose which causes reduced hose life and premature failure of the fitting connection. To determine if the application has torque, you can bolt the flange down loosely on one end and simulate the movement of the application with the other end. If torque exists, the loose fitting will turn inside the flange.

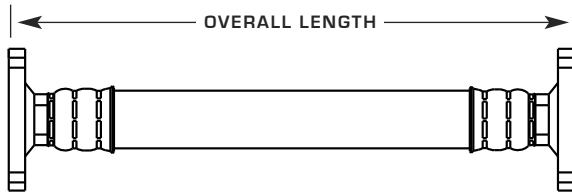




A collection of various hydraulic hose fittings and connectors, including straight, angled, and flared types, displayed against a blue background. The fittings are made of metal and are designed to connect hydraulic hoses. Some have flared ends, while others have threaded or crimped connections. The hoses are black and have different diameters. The fittings are arranged in two rows, with the top row showing more complex fittings and the bottom row showing simpler, more common ones.

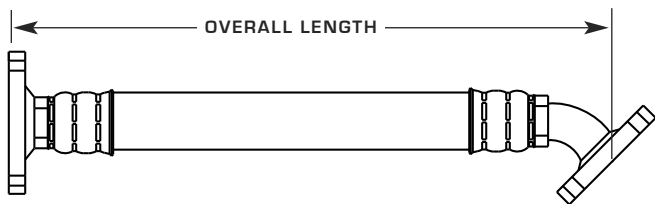
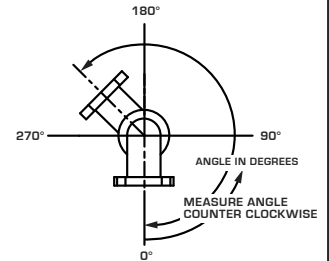
FLANGED INTERMEDIATE HOSE ASSEMBLIES

STANDARD HOSE ASSEMBLIES



TYPE 1

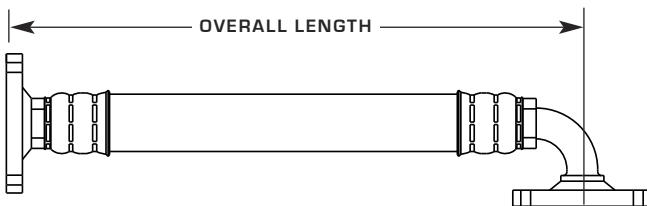
| PART # | O.A.L |
|---------|---------|
| LTH7614 | 39" |
| LTH7615 | 59-1/4" |



TYPE 2

| PART # | O.A.L |
|---------|---------|
| LTH3131 | 39" |
| LTH3139 | 43-1/2" |

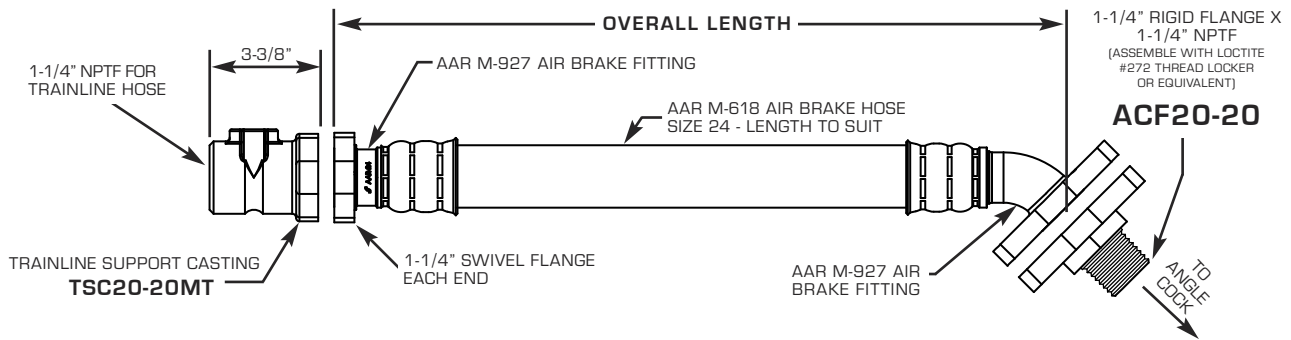
Hose assembly length should be determined by measuring from the end of straight fittings to the centerline of elbow fittings as shown. To specify twist angles, please refer to the illustration above.



TYPE 3

| PART # | O.A.L |
|---------|---------|
| LTH3141 | 39" |
| LTH1193 | 43-1/2" |
| LTH7458 | 59-1/4" |

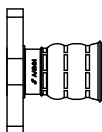
TYPICAL ARRANGEMENT



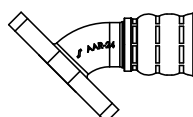
TYPICAL INTERMEDIATE HOSE ARRANGEMENT FROM ANGLE COCK TO TRAINLINE HOSE

STANDARD FITTINGS WITH GASKET GROOVES

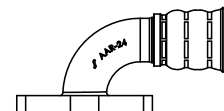
1-1/4" STRAIGHT
SWIVEL FLANGE FITTING



1-1/4" X 45°
SWIVEL FLANGE FITTING



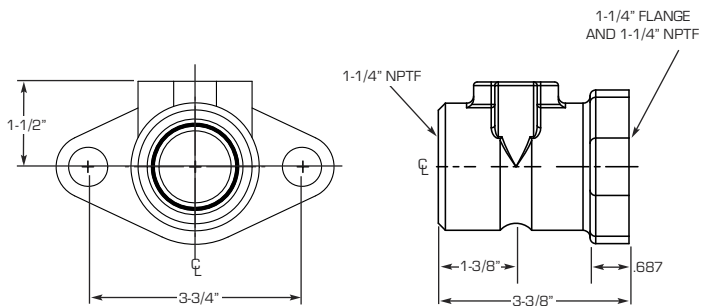
1-1/4" X 90°
SWIVEL FLANGE FITTING



ACCESSORIES

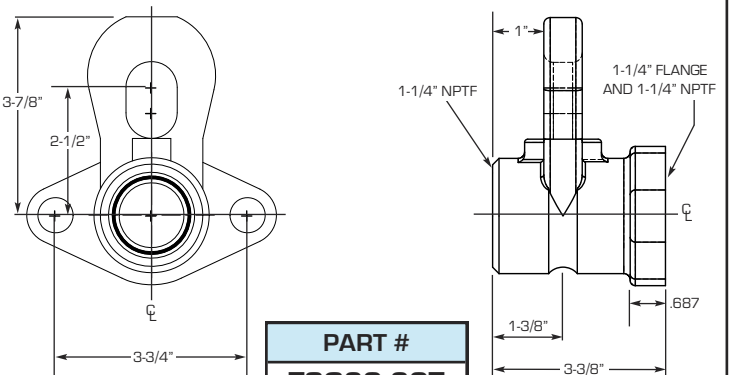
TRAINLINE SUPPORT CASTINGS 1-1/4" NPTF AND 1-1/4" FLANGE

TRAINLINE SUPPORT CASTING FOR RIGID MOUNTING



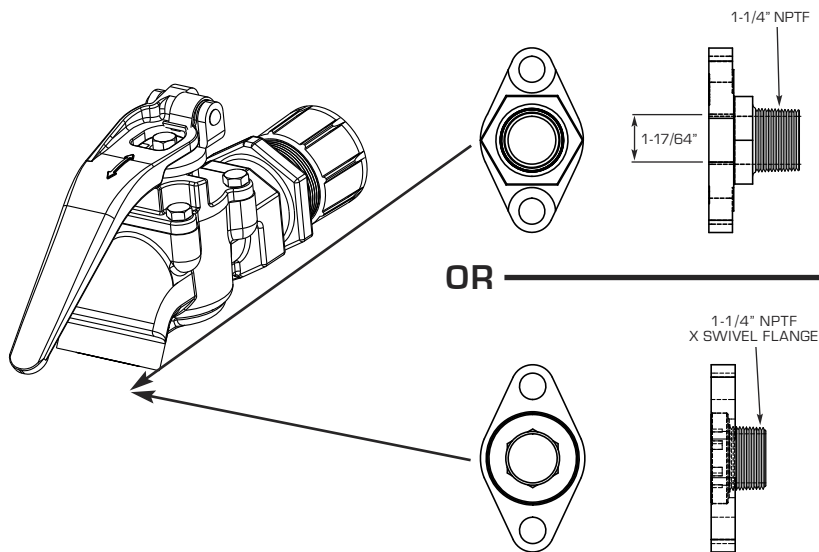
PART #
TSC20-20MT

TRAINLINE SUPPORT CASTING WITH EYELET FOR RIGID OR SWIVEL MOUNTING



PART #
TSC20-20T

THREADED ANGLE COCK ADAPTERS FOR CONNECTING A FLANGED HOSE ASSEMBLY TO A THREADED ANGLE COCK



1-1/4" RIGID FLANGE

FOR CARS WITH NO
CLEARANCE PROBLEMS

PART #
ACF20-20

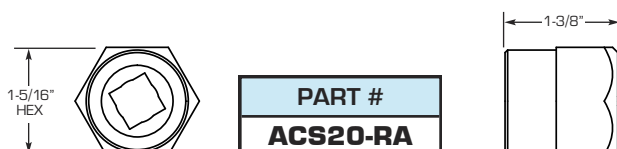
1-1/4" SWIVEL FLANGE

FOR CARS WITH MINIMAL CLEARANCE
ACS20 REQUIRES A STANDARD 1/2" RATCHET
FOR INSTALLATION. SEE BELOW

PART #
ACS20

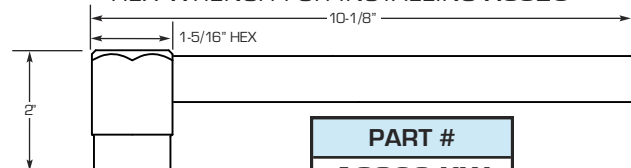
TOOLS FOR INSTALLING THREADED ANGLE COCK ADAPTERS

RATCHET ADAPTER FOR INSTALLING ACS20
FOR USE WITH A 1/2" SQUARE RATCHET



PART #
ACS20-RA

HEX WRENCH FOR INSTALLING ACS20



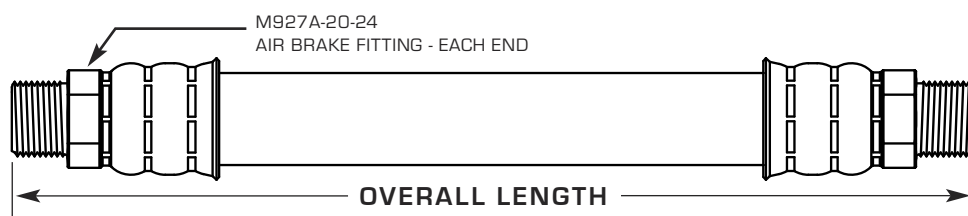
PART #
ACS20-HW

THREADED INTERMEDIATE HOSE ASSEMBLIES

TYPICAL HOSE ASSEMBLIES

1-1/4" RIGID MALE PIPE BY 1-1/4" RIGID MALE PIPE

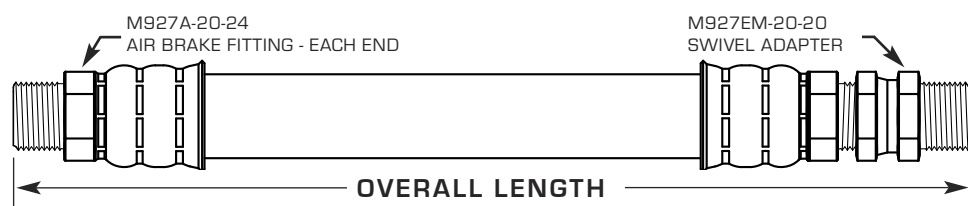
TYPE 1



| PART # | O.A.L |
|----------------|-------|
| LTH3097 | 37" |
| LTH1802 | 39" |
| LTH032 | 57" |

1-1/4" RIGID MALE PIPE BY 1-1/4" SWIVEL MALE PIPE

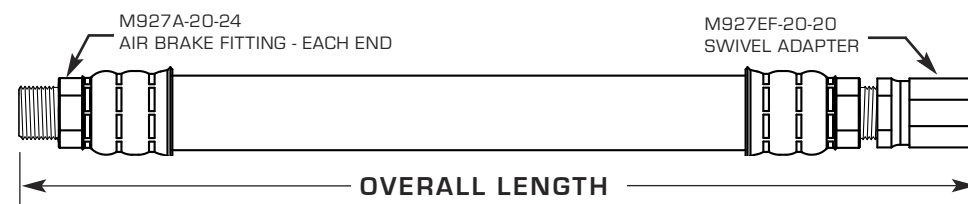
TYPE 2



| PART # | O.A.L |
|----------------|---------|
| LTH3058 | 39" |
| LTH1188 | 41" |
| LTH273 | 59-1/4" |

1-1/4" RIGID MALE PIPE BY 1-1/4" SWIVEL FEMALE PIPE

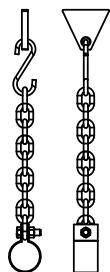
TYPE 3



| PART # | O.A.L |
|---------------|---------|
| LTH261 | 39" |
| LTH697 | 41" |
| LTH274 | 59-1/4" |

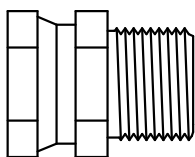
ACCESSORIES

HOSE HANGER



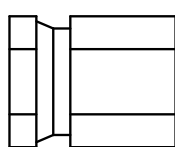
PART #
S150-24

MALE
SWIVEL ADAPTER



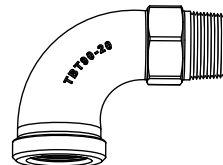
PART #
1028-20-20

FEMALE
SWIVEL ADAPTER



PART #
1029-20-20

1-1/4" THREADED 90°
LONG SWEEP ELBOW



PART #
TBT90-20

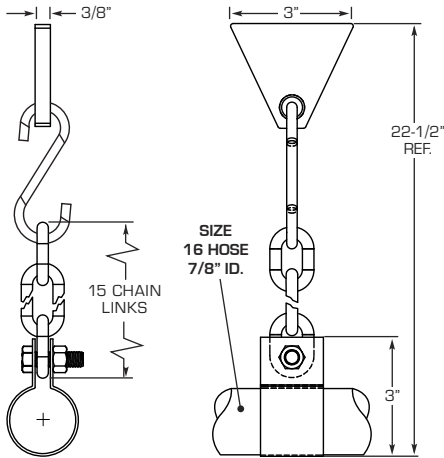
COIL GUARD



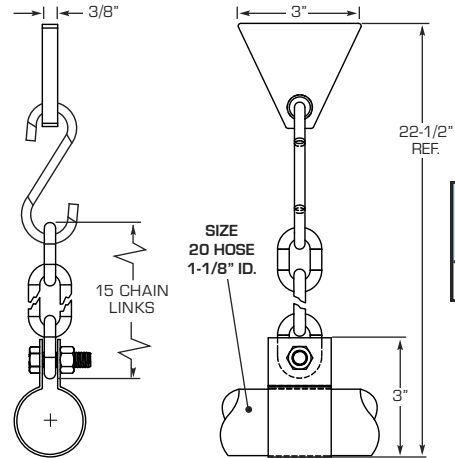
PART #
2625-58

UNIVERSAL HOSE HANGER ASSEMBLIES

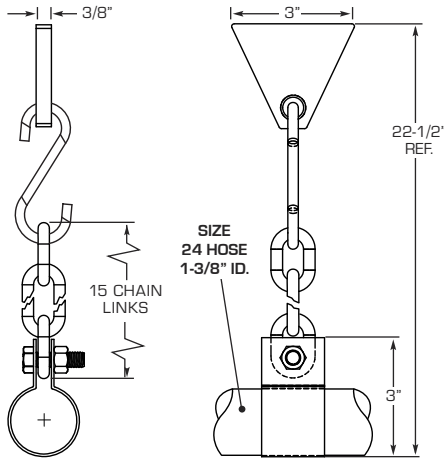
TYPICAL HOSE HANGER ASSEMBLIES



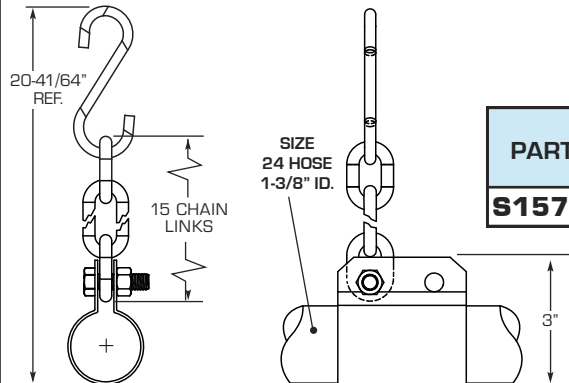
| PART # | FITS HOSE I.D. |
|----------------|----------------|
| S150-16 | 7/8" |



| PART # | FITS HOSE I.D. |
|----------------|----------------|
| S150-20 | 1-1/8" |



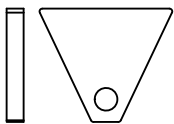
| PART # | FITS HOSE I.D. |
|----------------|----------------|
| S150-24 | 1-3/8" |



| PART # | FITS HOSE I.D. |
|----------------|----------------|
| S157-24 | 1-3/8" |

ACCESSORIES

HANGER BRACKET



| PART # |
|--------------|
| S150C |

"S" HOOK



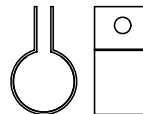
| PART # |
|--------------|
| S150A |

CHAIN



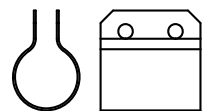
| PART # |
|------------------|
| PC-04-ISO |

HOSE CLAMPS



| PART # | FITS HOSE I.D. |
|--------------|----------------|
| S153 | 7/8" |
| S151 | 1-1/8" |
| S150B | 1-3/8" |

2-HOLE HOSE CLAMP

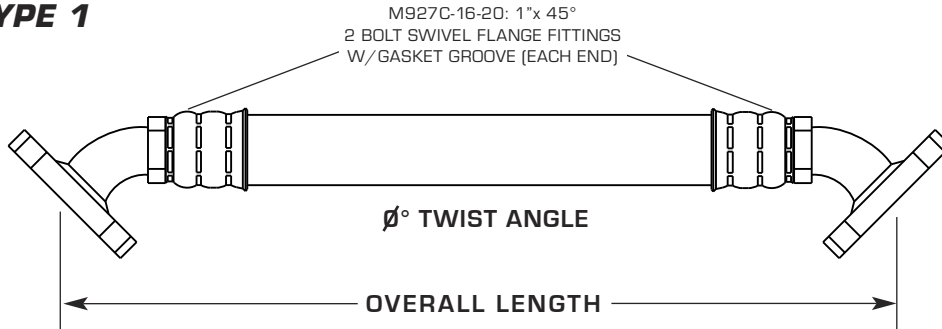


| PART # | I.D. |
|-------------|---------------|
| S157 | 1-3/8" |

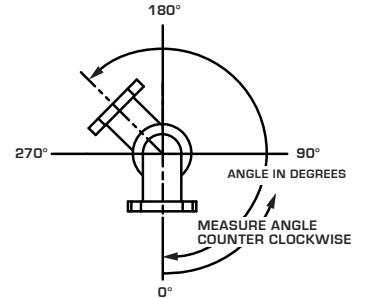
FLANGED CENTER CAR CUSHION HOSE ASSEMBLIES

STANDARD HOSE ASSEMBLIES

TYPE 1

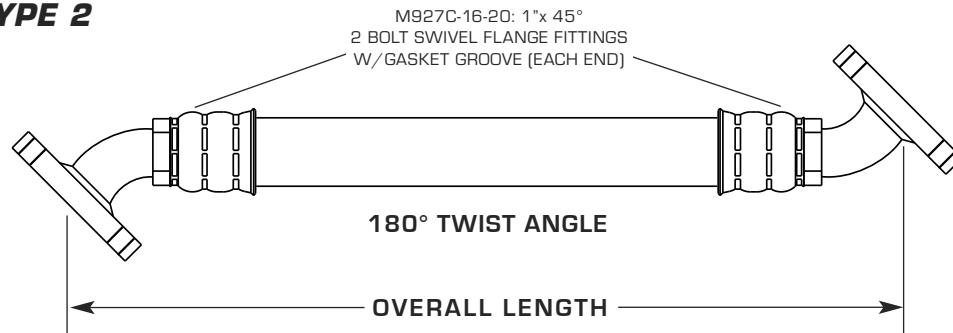


| PART # | O.A.L |
|---------------|-------|
| LTH056 | 44" |
| LTH020 | 49" |



Hose assembly length should be determined by measuring from the end of straight fittings to the centerline of elbow fittings as shown. To specify twist angles, please refer to the illustration above.

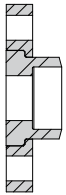
TYPE 2



| PART # | O.A.L |
|---------------|-------|
| LTH869 | 44" |
| LTH428 | 49" |

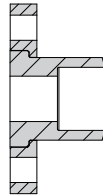
ACCESSORIES

1" WELD FITTINGS
WITHOUT GASKET GROOVES



STANDARD

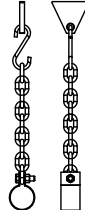
PART #
SBF16



DEEP

PART #
SBDF16

HOSE HANGER



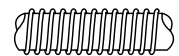
PART #
S150-20

GASKET



PART #
5401-16

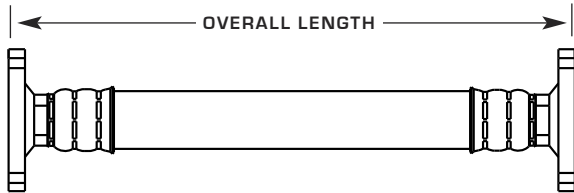
COIL GUARD



PART #
2625-52

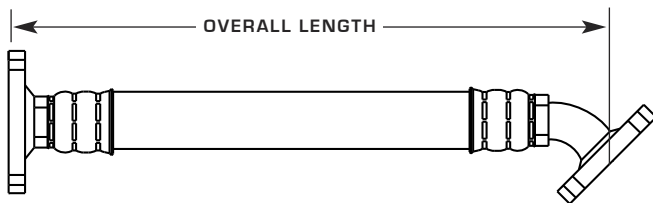
FLANGED BRANCH PIPE HOSE ASSEMBLIES WITH 1" FLANGED FITTINGS

TYPICAL HOSE ASSEMBLIES



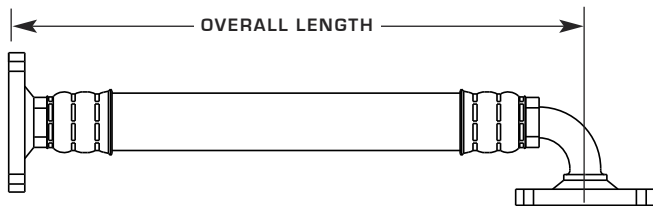
TYPE 1

| PART # | O.A.L |
|----------------|-------|
| LTH7125 | 24" |
| LTH7335 | 30" |



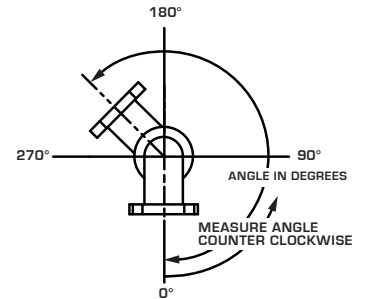
TYPE 2

| PART # | O.A.L |
|----------------|-------|
| LTH7633 | 24" |
| LTH3119 | 30" |



TYPE 3

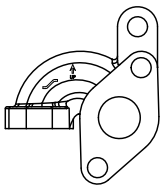
| PART # | O.A.L |
|----------------|-------|
| LTH7466 | 24" |
| LTH7634 | 30" |



Hose assembly length should be determined by measuring from the end of straight fittings to the centerline of elbow fittings as shown. To specify twist angles, please refer to the illustration above.

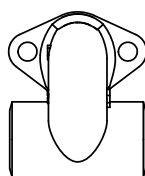
ACCESSORIES

BRANCH PIPE TEE



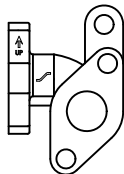
PART #
BPT20-16-90

BRANCH PIPE TEE



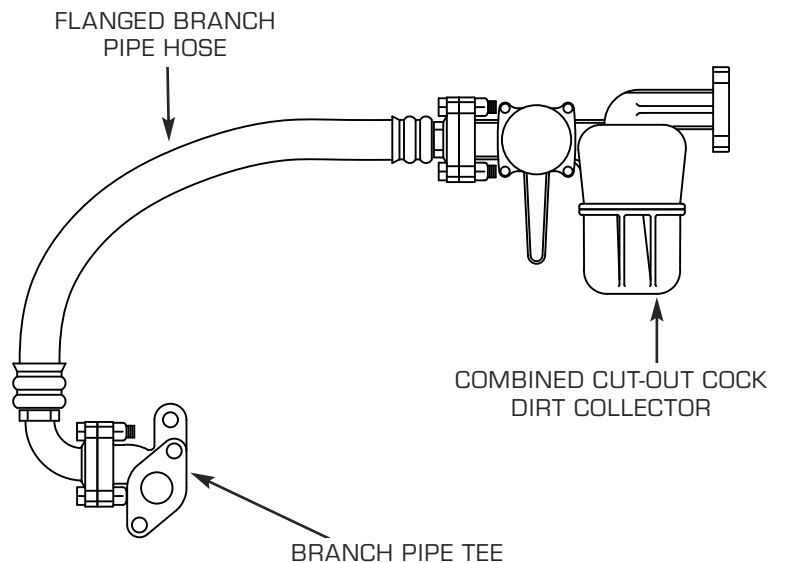
PART #
SWBT20-16

BRANCH PIPE TEE



PART #
BPT20-16

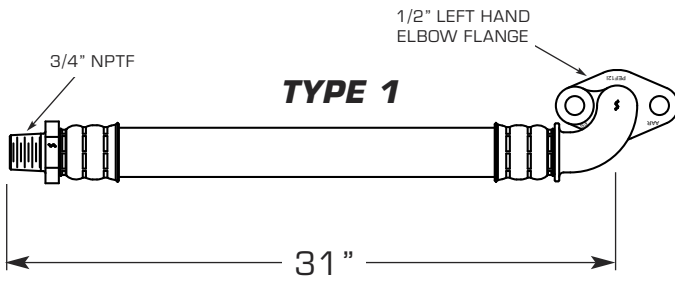
TYPICAL APPLICATION



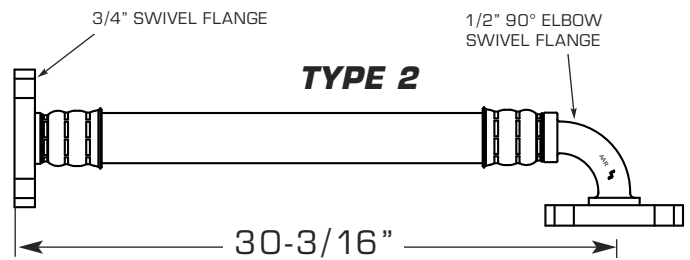
TRUCK MOUNTED BRAKE HOSE ASSEMBLIES

APPROVED TO AAR M-619 PERFORMANCE SPECIFICATION

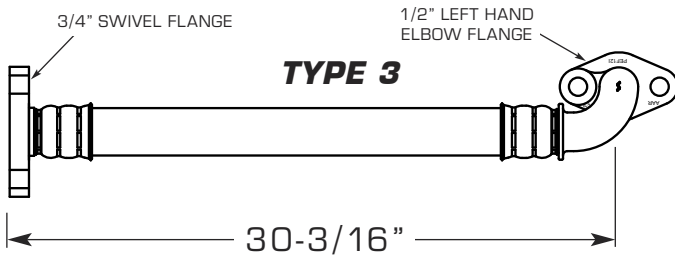
STANDARD HOSE ASSEMBLIES



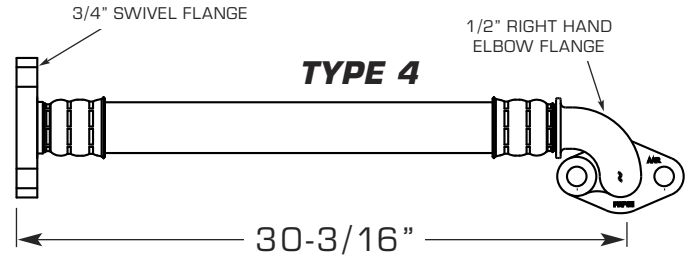
PART #
S618154



PART #
S618199



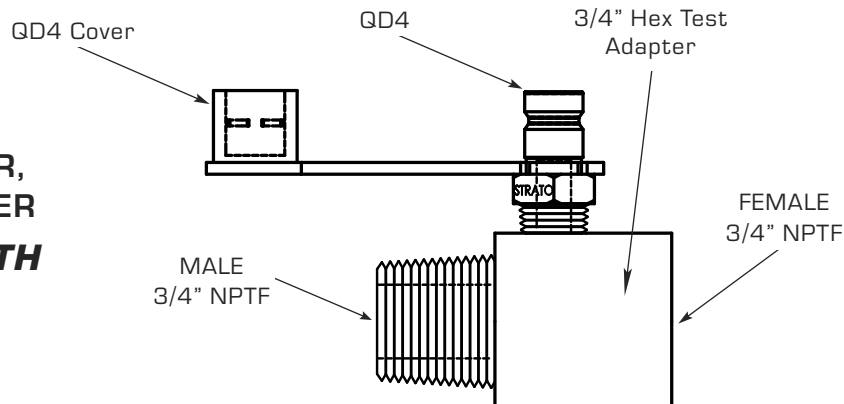
PART #
S618125



PART #
S618145

ACCESSORIES

**3/4" HEX
TEST ADAPTER,
QD4 AND COVER
FOR USE WITH
TYPE 1**

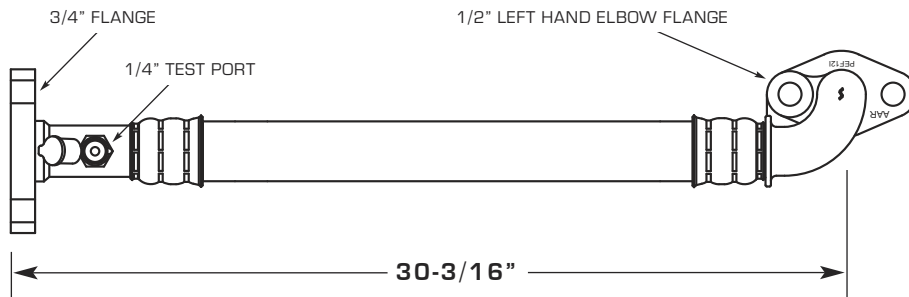


PART #
THTA12-2

TRUCK MOUNTED BRAKE HOSE ASSEMBLIES WITH TEST PORT FOR MEASURING BRAKE CYLINDER PRESSURE

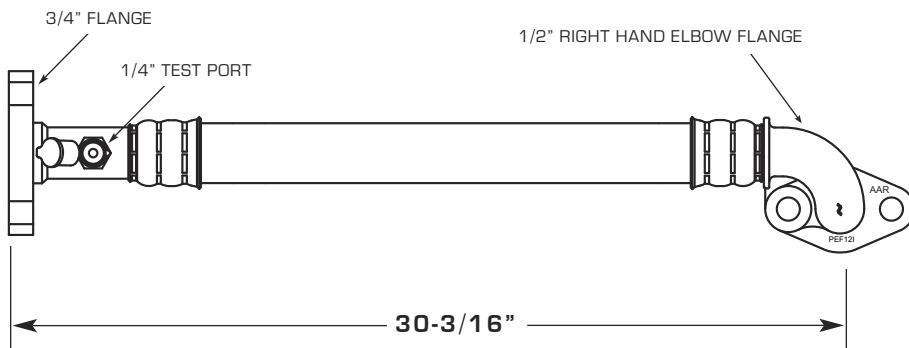
APPROVED TO AAR M-619 PERFORMANCE SPECIFICATION

TYPICAL HOSE ASSEMBLIES



TYPE 1

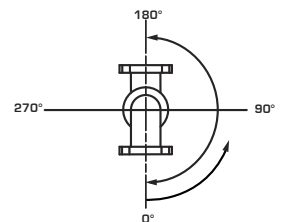
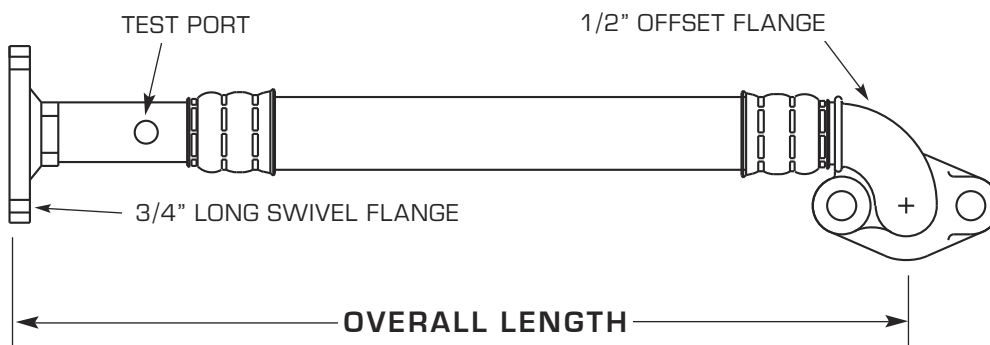
| PART # | OFFSET |
|------------------|--------|
| S6187571Q | 180° |



TYPE 2

| PART # | OFFSET |
|------------------|--------|
| S6187570Q | 180° |

Please specify type 1 OR 2, overall length and offset angle if applicable. Consult our hose installation guide for assembly instructions.



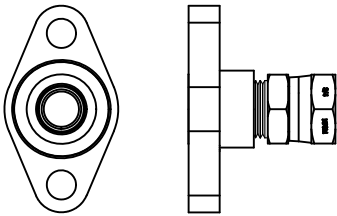
With sealing face down and in front of the viewer, angle of test port is measured counter clockwise.

RESERVOIR HOSE KIT TO REPLACE DAMAGED RESERVOIR PIPE

COMPLETE 16 PIECE KIT

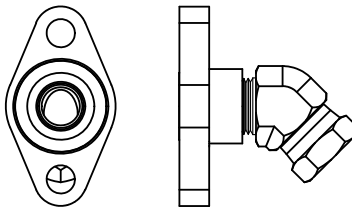
PART #
RHK-100

3/4" SWIVEL FLANGE x 3/4" FEMALE
NPTF PIPE SWIVEL STRAIGHT



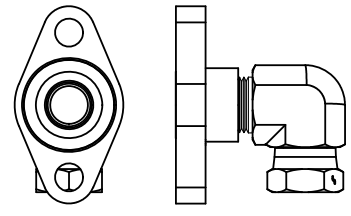
| QTY. | PART # |
|----------|-------------------|
| 4 | FTF012-12G |

3/4" SWIVEL FLANGE x 3/4" FEMALE
NPTF PIPE SWIVEL 45°



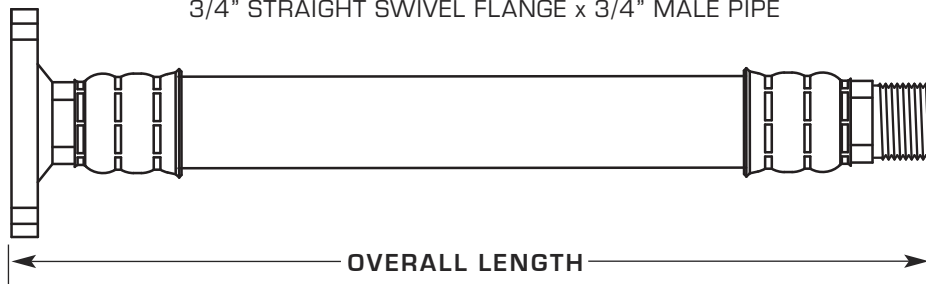
| QTY. | PART # |
|----------|--------------------|
| 2 | FTF4512-12G |

3/4" SWIVEL FLANGE x 3/4" FEMALE
NPTF PIPE SWIVEL 90°



| QTY. | PART # |
|----------|--------------------|
| 4 | FTF9012-12G |

3/4" STRAIGHT SWIVEL FLANGE x 3/4" MALE PIPE



Choose straight,
45° or 90° from
above to complete
your hose assembly

| QTY. | PART # | O.A.L |
|----------|-----------------|------------|
| 2 | S6187871 | 36" |

| QTY. | PART # | O.A.L |
|----------|-----------------|------------|
| 2 | S6187872 | 48" |

| QTY. | PART # | O.A.L |
|----------|-----------------|------------|
| 2 | S6187874 | 60" |

AAR REQUIREMENTS FOR THIS PRODUCT

1. All air brake hose assemblies must be assembled in a factory with an AAR Quality Assurance Certification in accordance with AAR M-1003.
2. STRATO, Inc. is an AAR M-1003 Certified company.
3. Hose fittings meet AAR M-927 specification.
4. Hose meets or exceeds AAR M-618 specification.

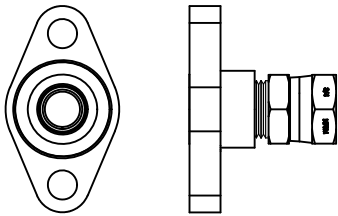


RETAINER VALVE HOSE KIT TO REPLACE DAMAGED RETAINER VALVE PIPE

COMPLETE 15 PIECE KIT

PART #
RHK-300

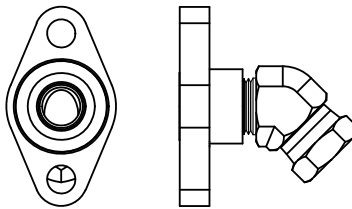
3/8" SWIVEL FLANGE x 3/8" FEMALE
NPTF PIPE SWIVEL STRAIGHT



QTY.
4

PART #
FTF06-6G

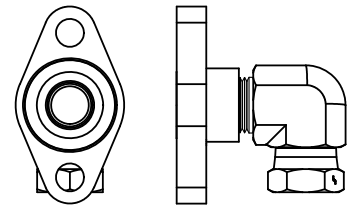
3/8" SWIVEL FLANGE x 3/8" FEMALE
NPTF PIPE SWIVEL 45°



QTY.
2

PART #
FTF456-6G

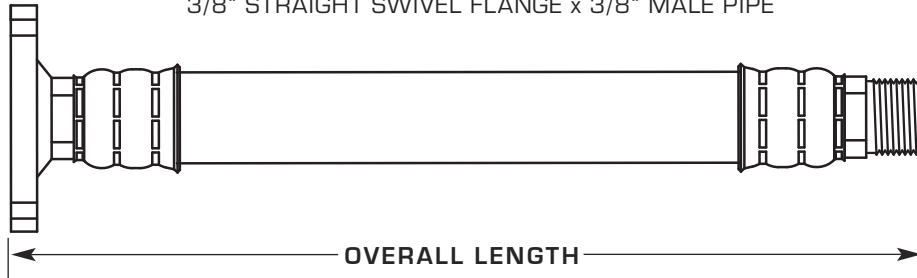
3/8" SWIVEL FLANGE x 3/8" FEMALE
NPTF PIPE SWIVEL 90°



QTY.
4

PART #
FTF906-6G

3/8" STRAIGHT SWIVEL FLANGE x 3/8" MALE PIPE



Choose straight,
45° or 90° from
above to complete
your hose assembly

QTY.
1

| PART # | O.A.L. |
|-----------------|--------|
| S2758126 | 24" |
| S2758131 | 30" |

QTY.
1

| PART # | O.A.L. |
|-----------------|--------|
| S2758138 | 36" |

QTY.
1

| PART # | O.A.L. |
|-----------------|--------|
| S2758153 | 42" |
| S2758157 | 48" |

AAR REQUIREMENTS FOR THIS PRODUCT

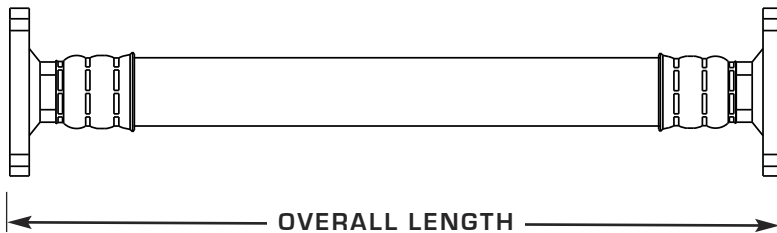
1. All air brake hose assemblies must be assembled in a factory with an AAR Quality Assurance Certification in accordance with AAR M-1003.
2. STRATO, Inc. is an AAR M-1003 Certified company.
3. Hose fittings meet AAR M-927 specification.
4. Hose meets or exceeds AAR M-618 specification.

EMPTY/LOAD, RESERVOIR & DOOR AIR HOSE ASSEMBLIES

APPROVED TO AAR M-619 PERFORMANCE SPECIFICATION

TYPICAL ARRANGEMENTS

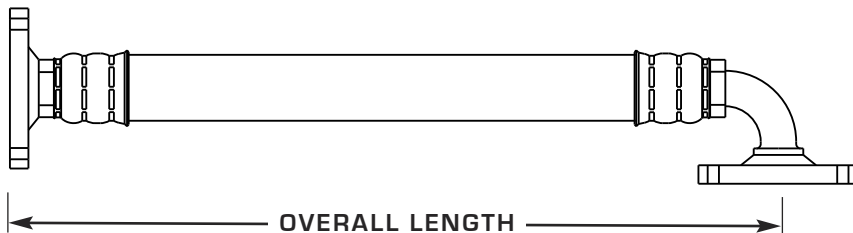
3/4" STRAIGHT SWIVEL FLANGE x 3/4" STRAIGHT SWIVEL FLANGE



TYPE 1

| PART # | O.A.L |
|-----------------|-------|
| S6181159 | 24" |
| S618103 | 30" |

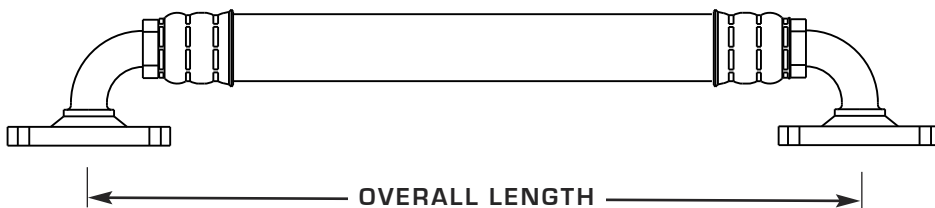
3/4" STRAIGHT SWIVEL FLANGE x 90° ELBOW w/ 3/4" SWIVEL FLANGE



TYPE 2

| PART # | O.A.L |
|----------------|-------|
| S618197 | 24" |
| S618198 | 30" |

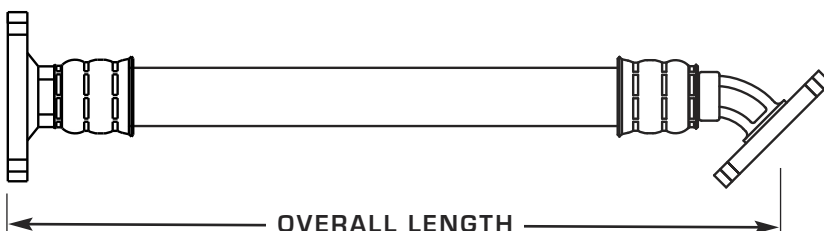
90° ELBOW x 90° ELBOW w / 3/4" SWIVEL FLANGES



TYPE 3

| PART # | O.A.L | OFFSET |
|-----------------|-------|--------|
| S6187056 | 31" | 0° |

3/4" STRAIGHT SWIVEL FLANGE x 3/4" x 45° SWIVEL FLANGE



TYPE 4

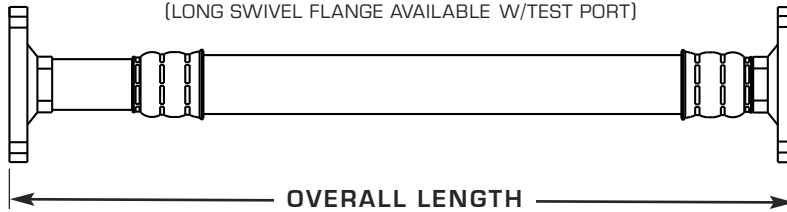
| PART # | O.A.L |
|-----------------|---------|
| S6187447 | 24-1/2" |
| S6187577 | 30" |

EMPTY/LOAD, RESERVOIR & DOOR AIR HOSE ASSEMBLIES

APPROVED TO AAR M-619 PERFORMANCE SPECIFICATION

TYPICAL ARRANGEMENTS

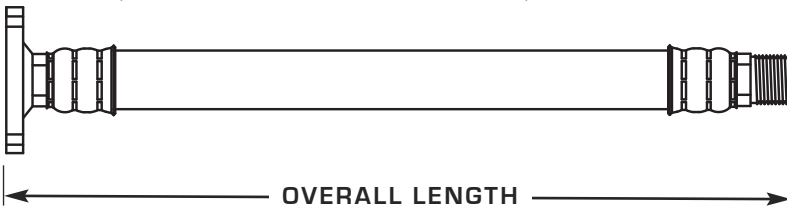
3/4" LONG SWIVEL FLANGE x 3/4" STRAIGHT SWIVEL FLANGE
(LONG SWIVEL FLANGE AVAILABLE W/TEST PORT)



TYPE 5

| PART # | O.A.L |
|-----------------|-------|
| S6187002 | 24" |
| S6188074 | 32" |

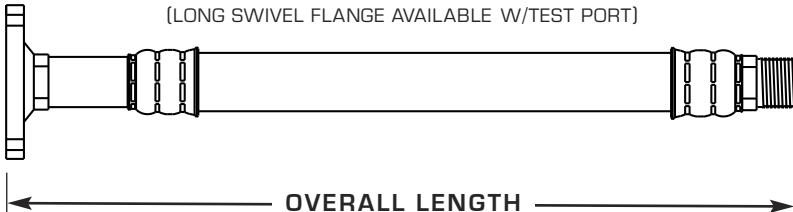
3/4" STRAIGHT SWIVEL FLANGE x 3/4" MALE PIPE



TYPE 6

| PART # | O.A.L |
|-----------------|-------|
| S6187302 | 22" |
| S6187870 | 32" |

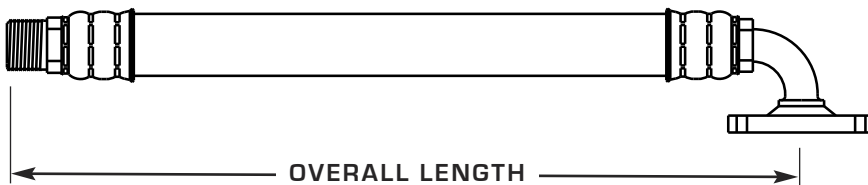
3/4" LONG SWIVEL FLANGE x 3/4" MALE PIPE
(LONG SWIVEL FLANGE AVAILABLE W/TEST PORT)



TYPE 7

| PART # | O.A.L |
|-----------------|-------|
| S6187203 | 26" |
| S6188086 | 31" |

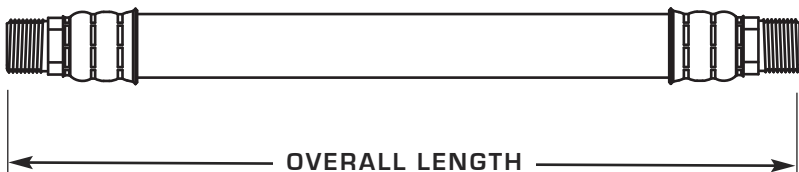
3/4" MALE PIPE x 90° ELBOW w/ 3/4" SWIVEL FLANGE



TYPE 8

| PART # | O.A.L |
|-----------------|-------|
| S6187035 | 22" |
| S6187279 | 31" |

3/4" MALE PIPE x 3/4" MALE PIPE



TYPE 9

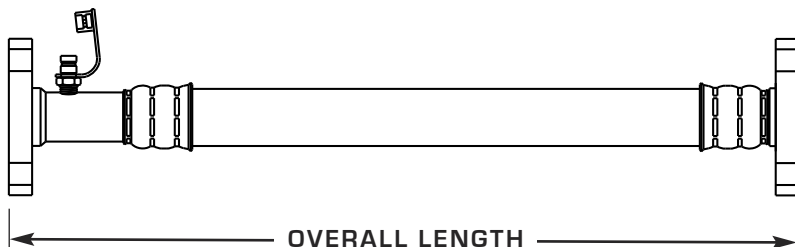
| PART # | O.A.L |
|-----------------|-------|
| S6187730 | 24" |
| S6187145 | 33" |

EMPTY/LOAD HOSE ASSEMBLIES

WITH TEST PORT FOR MEASURING BRAKE CYLINDER PRESSURE
APPROVED TO AAR M-619 PERFORMANCE SPECIFICATION

TYPICAL ARRANGEMENTS

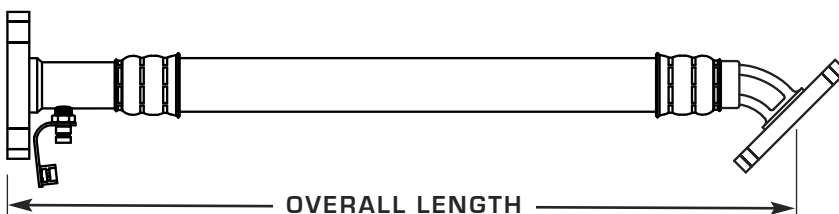
3/4" LONG SWIVEL FLANGE x 3/4" STRAIGHT SWIVEL FLANGE



TYPE 1

| PART # | O.A.L |
|------------------|-------|
| S6187884 | 24" |
| S6187573Q | 30" |

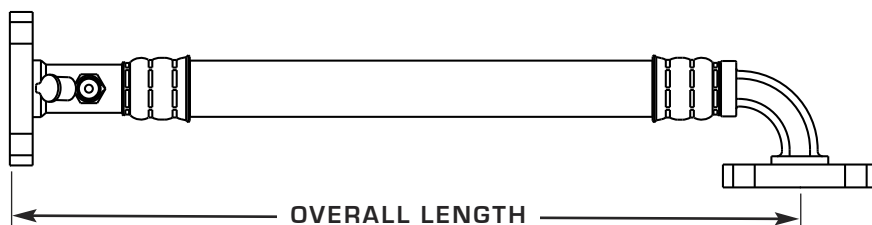
3/4" LONG SWIVEL FLANGE x 45° ELBOW w/ 3/4" SWIVEL FLANGE



TYPE 2

| PART # | O.A.L | OFFSET |
|------------------|-------|--------|
| S6187616Q | 24" | 0° |
| S6187617Q | 30" | 0° |

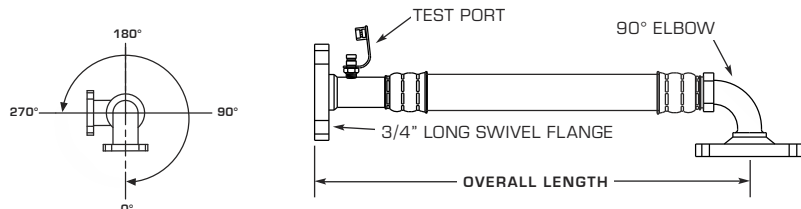
3/4" LONG SWIVEL FLANGE x 90° ELBOW w/ 3/4" SWIVEL FLANGE



TYPE 3

| PART # | O.A.L | OFFSET |
|------------------|-------|--------|
| S6187574Q | 24" | 270° |
| S6187575Q | 30" | 270° |

Please specify type 1, 2 or 3, overall length and offset angle if applicable. Consult our hose installation guide for assembly instructions.



With sealing face down and in front of the viewer, angle of test port is measured counter clockwise.

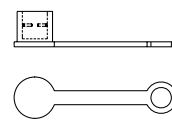
ACCESSORIES

MALE QUICK
DISCONNECT



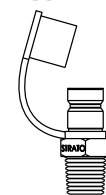
PART #
QD4

VALVE COVER FOR
QD4



PART #
C100

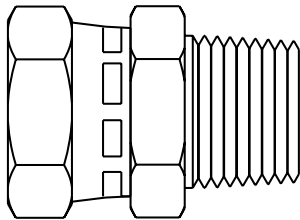
QD4 AND C100
ASSEMBLY



PART #
QD4-100

STANDARD ADAPTERS FOR DOOR AIR HOSE

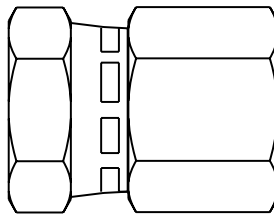
3/4" FEMALE SWIVEL x 3/4" MALE PIPE
THREAD ADAPTER



PART #

1028-12-12

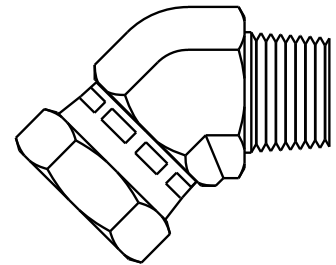
3/4" FEMALE SWIVEL x 3/4" FEMALE
PIPE THREAD ADAPTER



PART #

1029-12-12

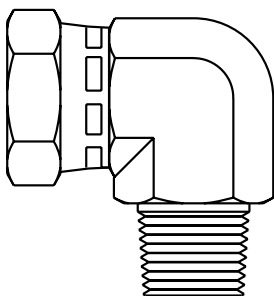
3/4" FEMALE SWIVEL x 3/4" MALE PIPE
THREAD 45° ADAPTER



PART #

1036-12-12

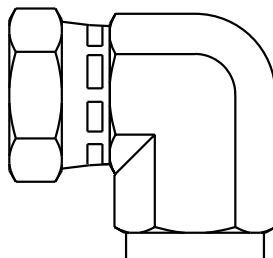
3/4" FEMALE SWIVEL x 3/4" MALE PIPE
THREAD 90° ADAPTER



PART #

1037-12-12

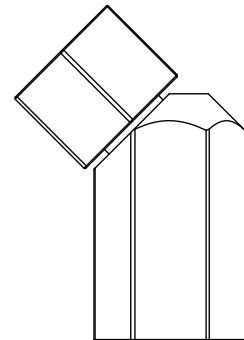
3/4" FEMALE SWIVEL x 3/4" FEMALE
PIPE THREAD 90° ADAPTER



PART #

1030-12-12

3/4" x 3/4" FEMALE 45°
SWIVEL ADAPTER



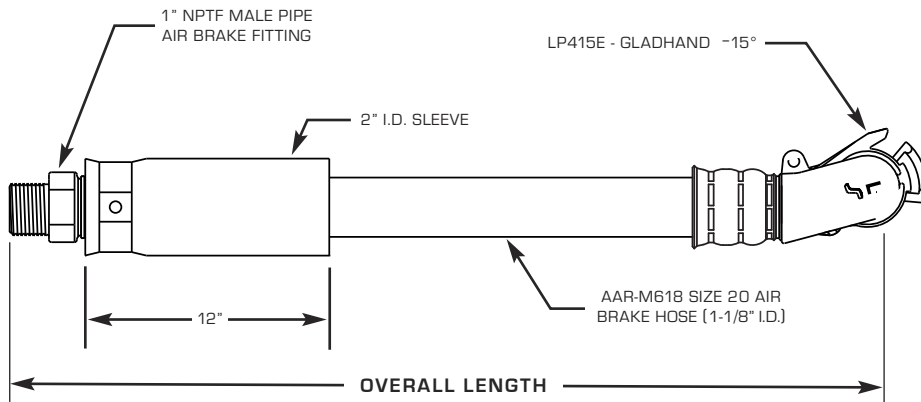
PART #

15854-12-12

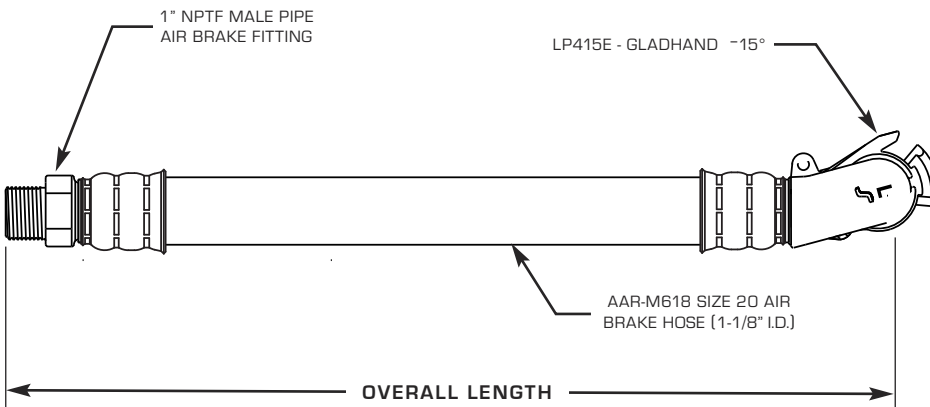
BETWEEN CAR DOOR AIR HOSE ASSEMBLIES

FOR CONNECTING AIRLINE FOR PNEUMATIC DOOR OPERATION BETWEEN FREIGHT CARS

TYPICAL ARRANGEMENT



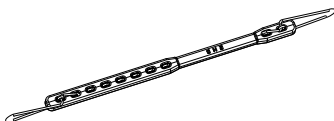
| PART # | O.A.L |
|-----------------|---------|
| S2751435 | 37-1/2" |
| S2757362 | 26-3/4" |



| PART # | O.A.L |
|-----------------|----------|
| S2751430 | 37-7/16" |
| S2757995 | 26-3/4" |

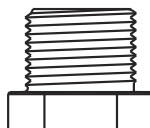
ACCESSORIES

HEAVY DUTY
END HOSE STRAP



| PART # |
|------------|
| EHS |

1-1/4" x 1" BUSHING



| PART # |
|------------|
| H74 |

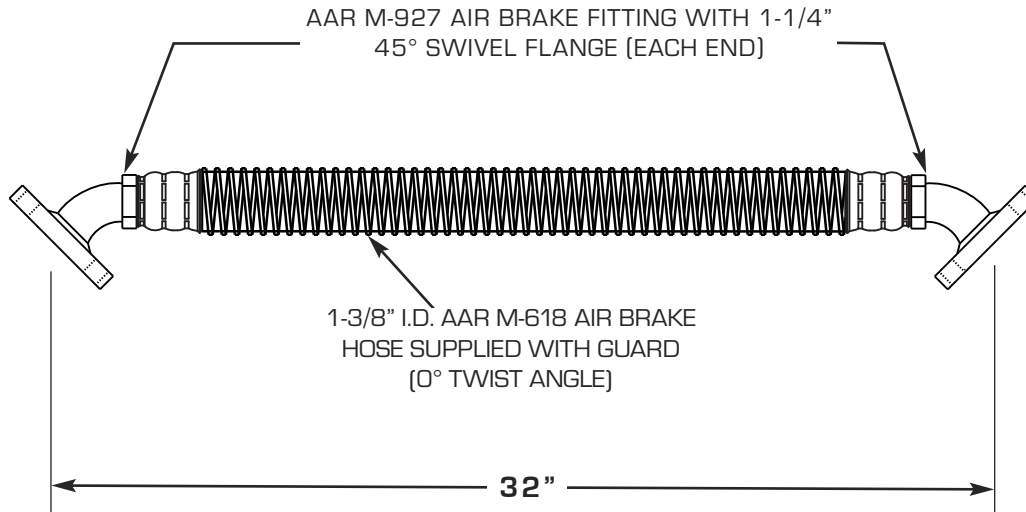
GLADHAND GASKET



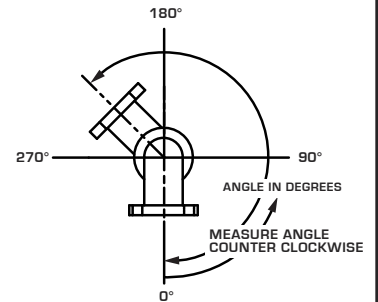
| PART # |
|--------------|
| G-324 |

ARTICULATED JOINT HOSE ASSEMBLIES

STANDARD HOSE ASSEMBLY



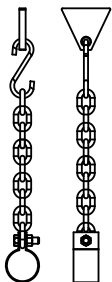
| |
|---------------|
| PART # |
| LTH696 |



Hose assembly length should be determined by measuring from the end of straight fittings to the centerline of elbow fittings as shown. To specify twist angles, please refer to the illustration above.

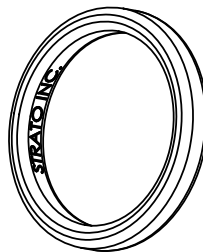
ACCESSORIES

HOSE HANGER



| |
|----------------|
| PART # |
| S150-24 |

GASKET



| |
|----------------|
| PART # |
| 5401-20 |

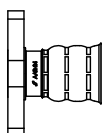
COIL GUARD



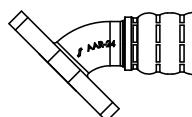
| |
|----------------|
| PART # |
| 2625-58 |

STANDARD FITTINGS WITH GASKET GROOVES

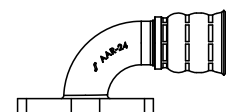
1-1/4" STRAIGHT SWIVEL FLANGE FITTING



1-1/4" X 45° SWIVEL FLANGE FITTING



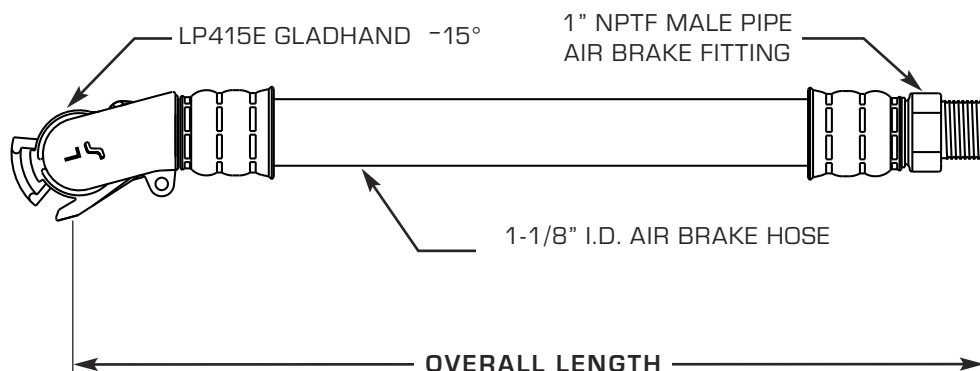
1-1/4" X 90° SWIVEL FLANGE FITTING



STANDARD LOCOMOTIVE HOSE ASSEMBLIES

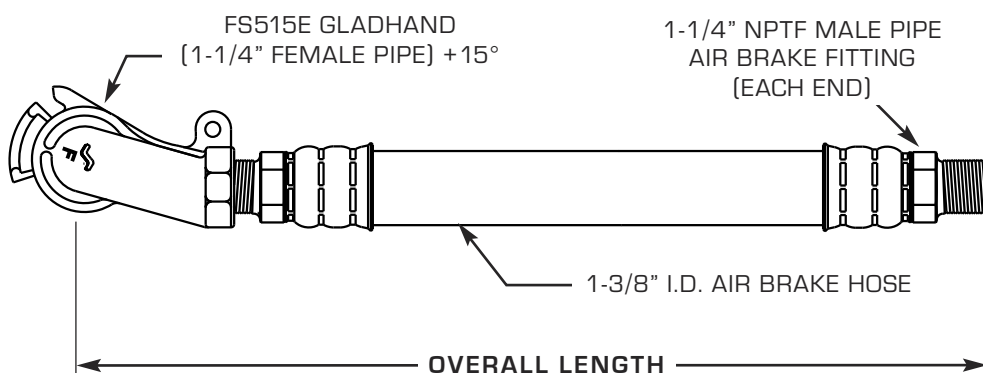
MEETS ALL AAR M-618 AND M-927 SPECIFICATIONS

MAIN RESERVOIR



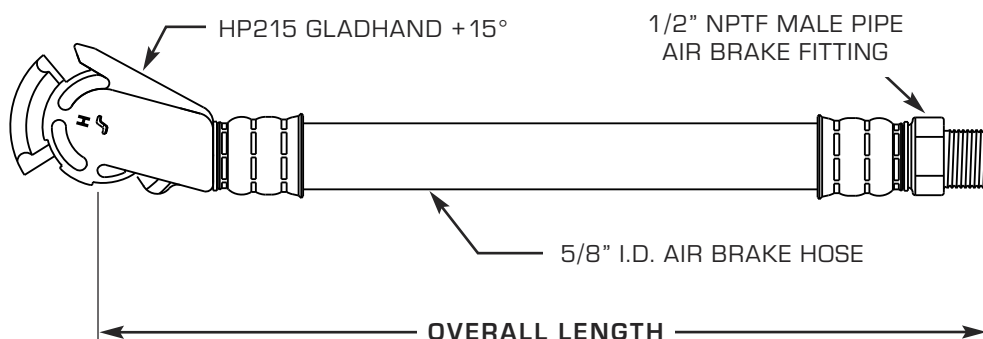
| PART # | O.A.L |
|----------------|---------|
| S275064 | 34" |
| S275209 | 35-1/2" |

TRAINLINE



| PART # | O.A.L |
|---------------|---------|
| LTH163 | 26-3/4" |
| LTH908 | 36" |

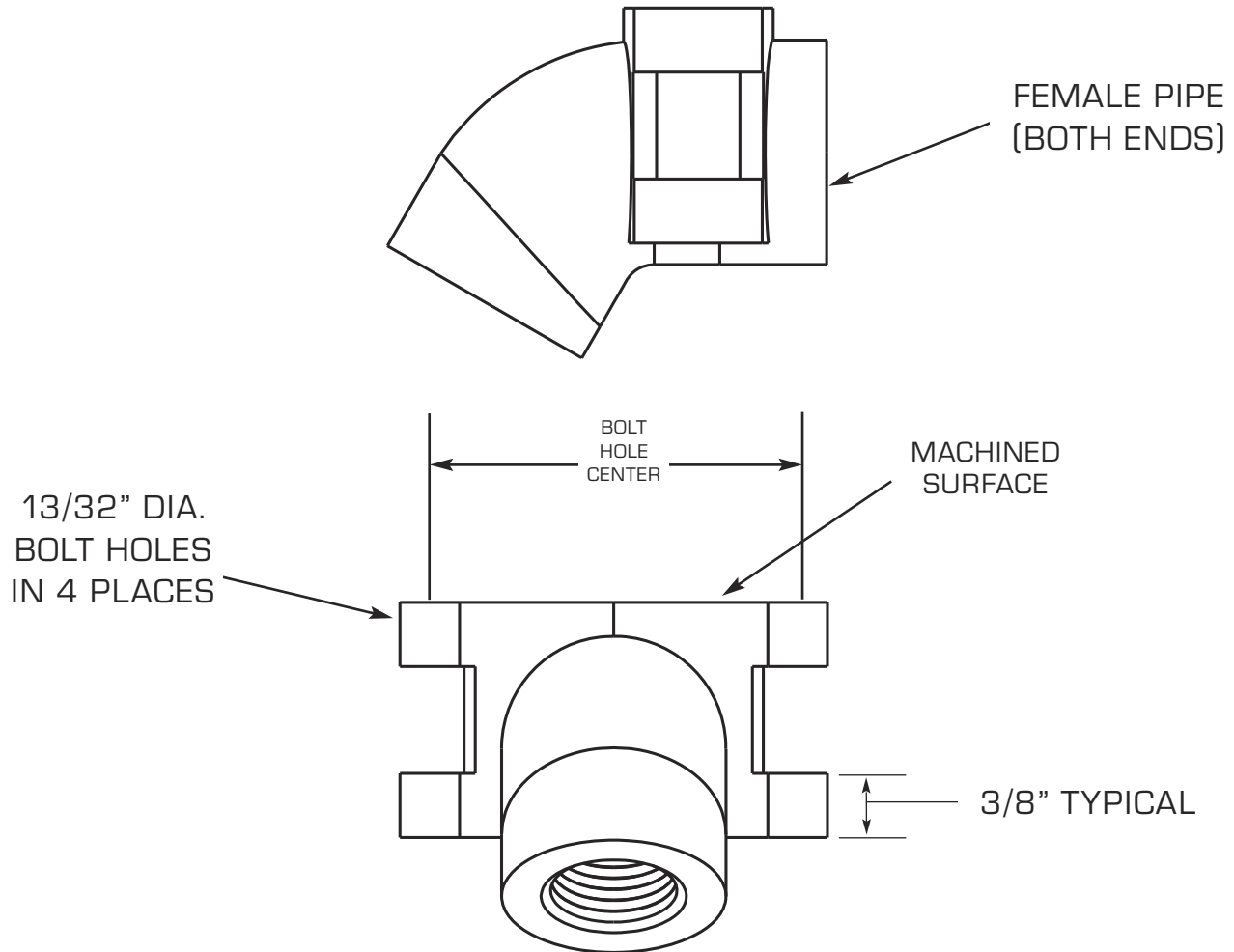
ACTUATING, APPLICATION RELEASE, SANDING



| PART # | O.A.L |
|----------------|-------|
| S275880 | 34" |
| S275217 | 36" |

60° LOCOMOTIVE ELBOW CASTINGS

FOR CONNECTING LOCOMOTIVE HOSE ASSEMBLIES INCLUDING MAIN
TRAINLINE, RESERVOIR, ACTUATING, APPLICATION RELEASE, SANDING

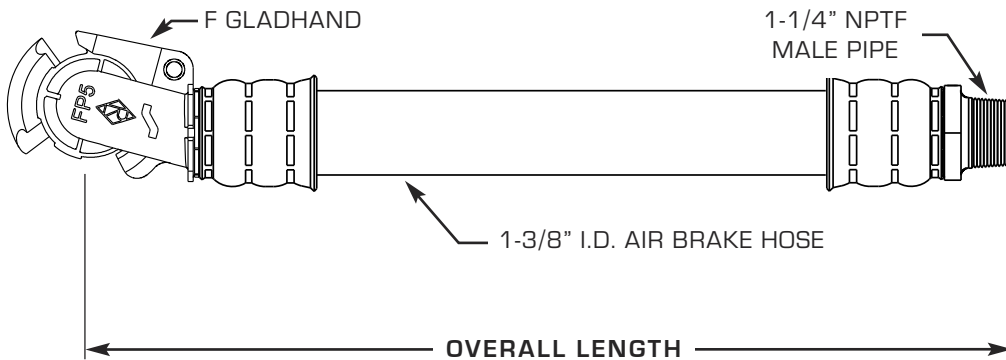


MATERIAL: MALLEABLE IRON ASTM A47-GR32510

| PART # | NPTF BOTH ENDS |
|----------------|----------------|
| LM60-8 | 1/2" |
| LM60-12 | 3/4" |
| LM60-16 | 1" |
| LM60-20 | 1-1/4" |

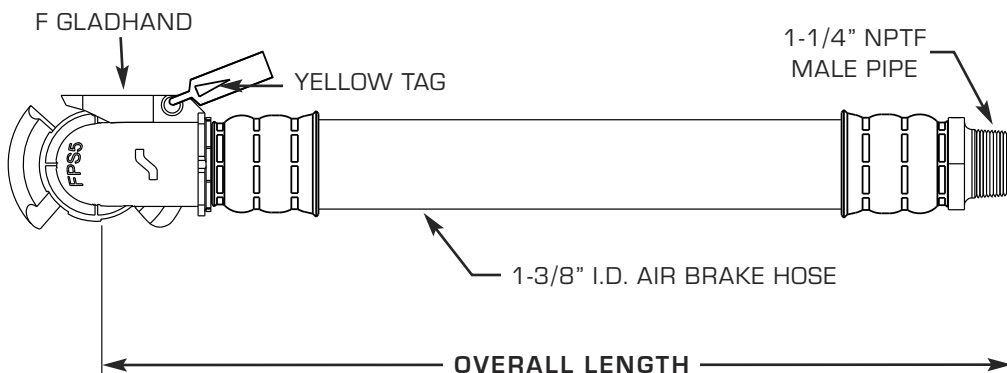
AAR M-601 MAIN TRAINLINE AIR BRAKE HOSE ASSEMBLIES WITH STANDARD GASKET

AAR 15° OFFSET GLADHAND END HOSE ASSEMBLY



| PART # | O.A.L |
|-------------------|---------|
| S6012422CW | 26-3/4" |
| S6012433CW | 37-3/4" |

AAR STRAIGHT SHANK GLADHAND END HOSE ASSEMBLY FOR CUSHIONED CARS

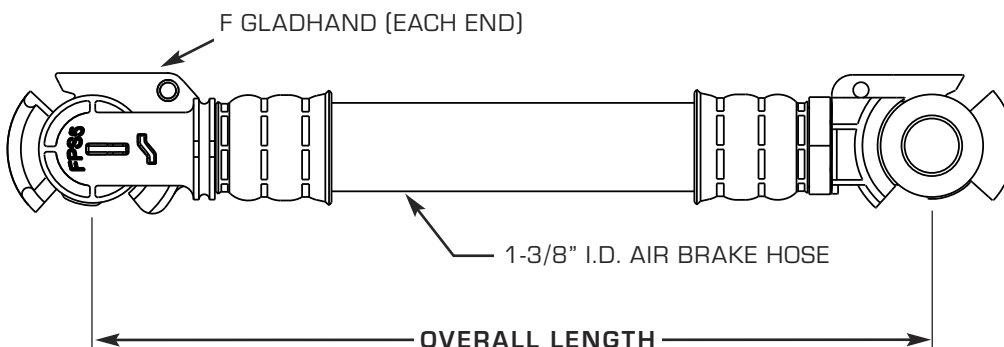


| PART # | O.A.L |
|----------------|---------|
| S601500 | 26-3/4" |

APPLICATION

APPLY ONLY TO CARS WITH END HOSES MOUNTED UNDER THE COUPLER

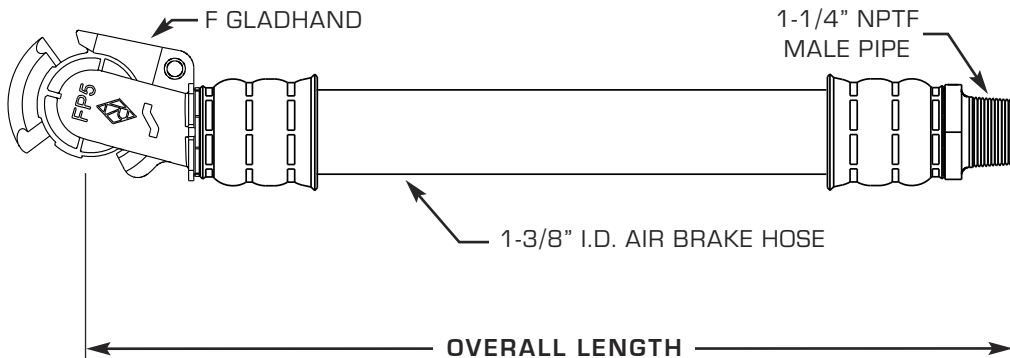
JUMPER HOSE



| PART # | O.A.L |
|-------------------|-------|
| S6012513CW | 13" |
| S6012516CW | 16" |

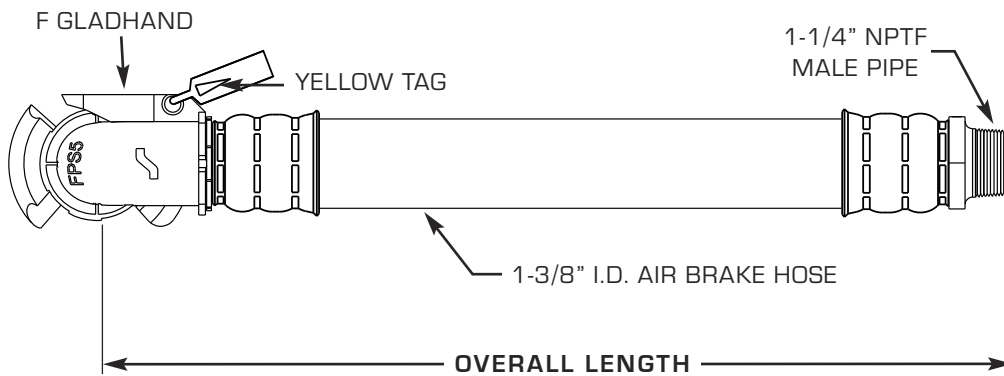
AAR M-601 MAIN TRAINLINE AIR BRAKE HOSE ASSEMBLIES WITH WIDE SEAL GASKET

AAR 15° OFFSET GLADHAND END HOSE ASSEMBLY



| PART # | O.A.L |
|-------------------|---------|
| S6012422CW | 26-3/4" |
| S6012433CW | 37-3/4" |

AAR STRAIGHT SHANK GLADHAND END HOSE ASSEMBLY FOR CUSHIONED CARS



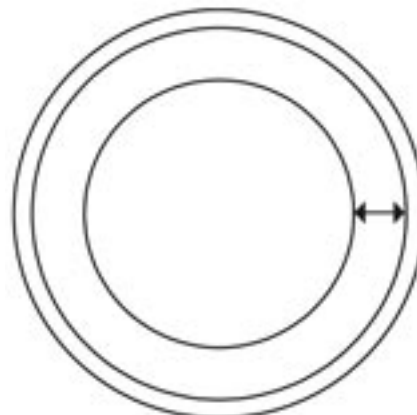
| PART # | O.A.L |
|-----------------|---------|
| S601500X | 26-3/4" |

APPLICATION

APPLY ONLY TO CARS
WITH END HOSES MOUNTED
UNDER THE COUPLER

WIDE SEAL GASKET

Fits in standard end hose gladhands



| PART # |
|------------|
| GWS |

* The side with the white mark fits into the gladhand.

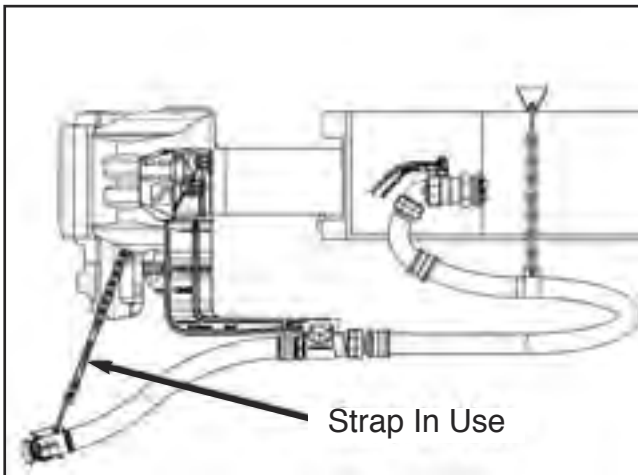
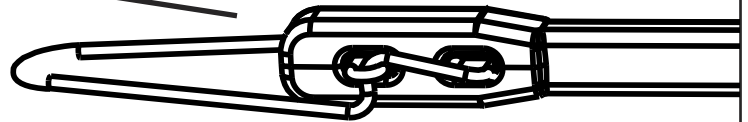
HEAVY DUTY END HOSE STRAP

MEETS AAR S-4006 SPECIFICATION



PART #
EHS

PATENTED



Strap In Use

Extra strength for longer life

Reduces maintenance and replacement costs

Cold temperature tested

Double hook with locking tab to prevent rotation - old style hooks can rotate causing lateral loading, a common cause of failure

Zinc plated to resist corrosion

Easy installation and adjustment

A RUBBER END HOSE SUPPORT STRAP IS BETTER THAN A CHAIN.

Prevents undesired hose uncoupling.

The energy generated from pressurized hose separation, planned or unplanned, throws back the gladhand with great force which can cause damage.

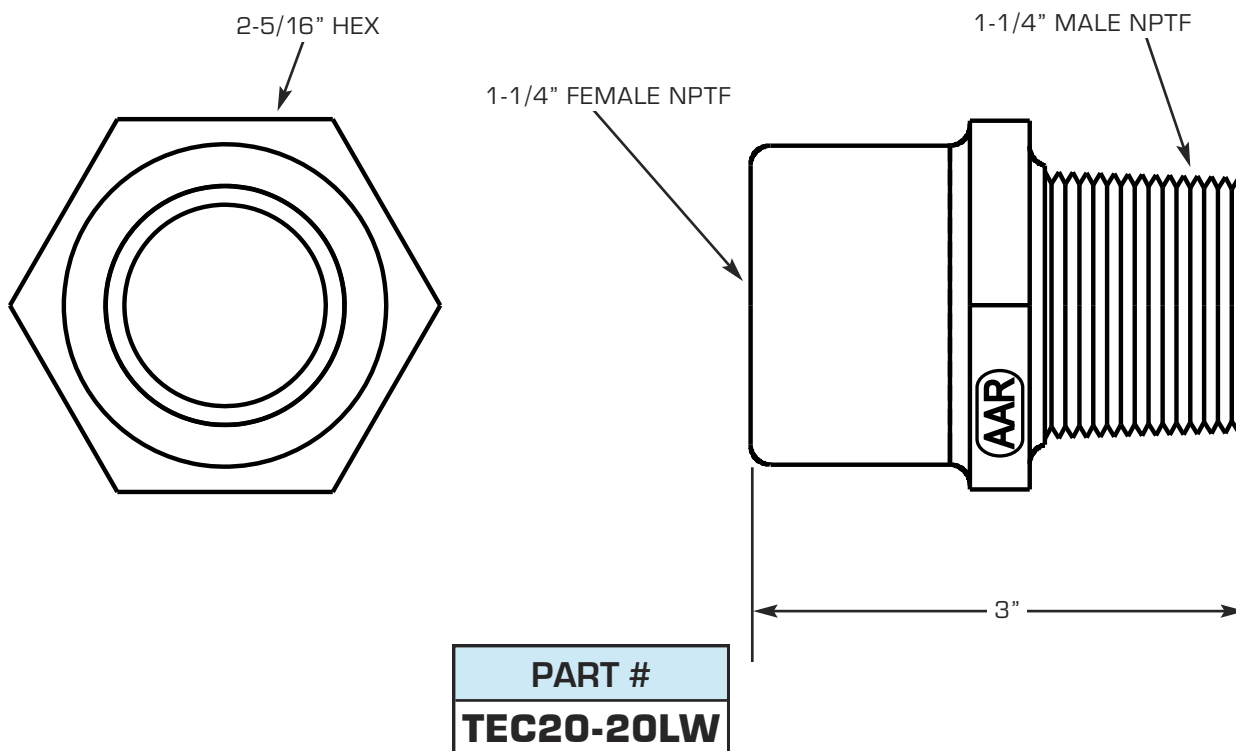
• Damage to the Car or Hose • Broken Hose Straps • Bodily Harm

A rigid strap will not absorb this energy and the force generated when using a chain hose support.

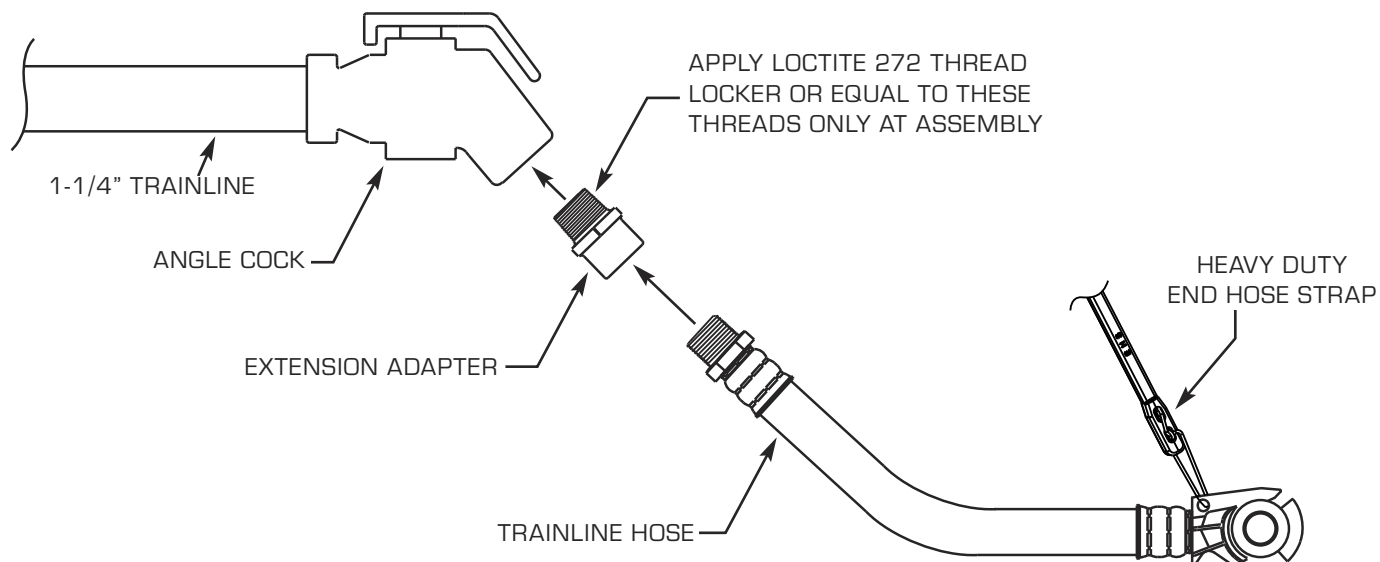
Strato's rubber strap stretches to absorb the energy and reduces the impact force to prevent damage or injury.

TRAINLINE EXTENSION FITTING

AAR STANDARD S-4013



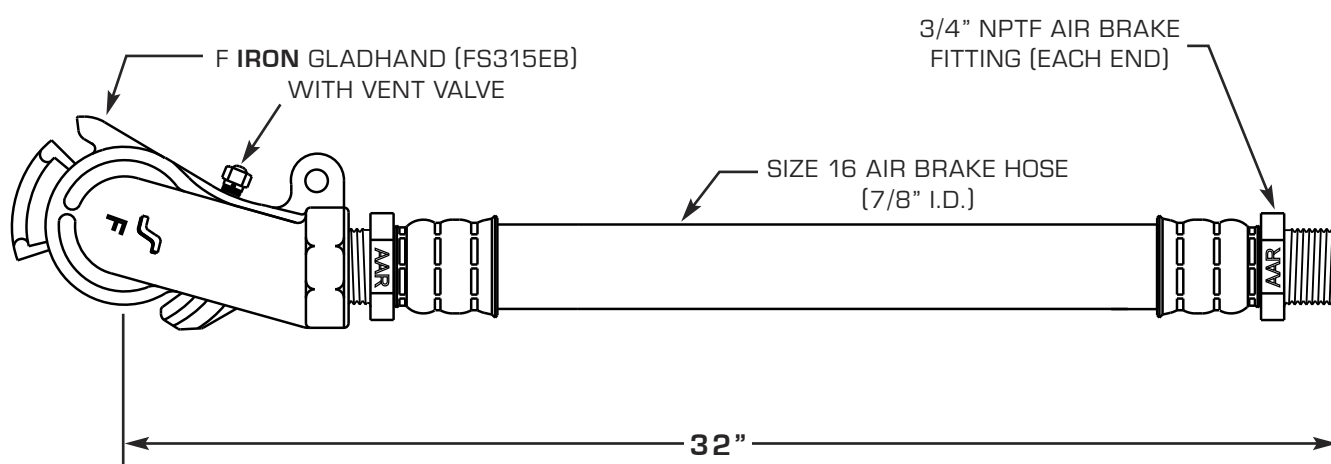
TYPICAL INSTALLATION



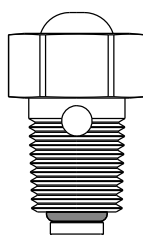
END OF TRAIN TELEMETRY HOSE ASSEMBLIES

MEETS ALL AAR M-618 & M-927 SPECIFICATIONS

IRON GLADHAND



| |
|---------------|
| PART # |
| EOT200 |



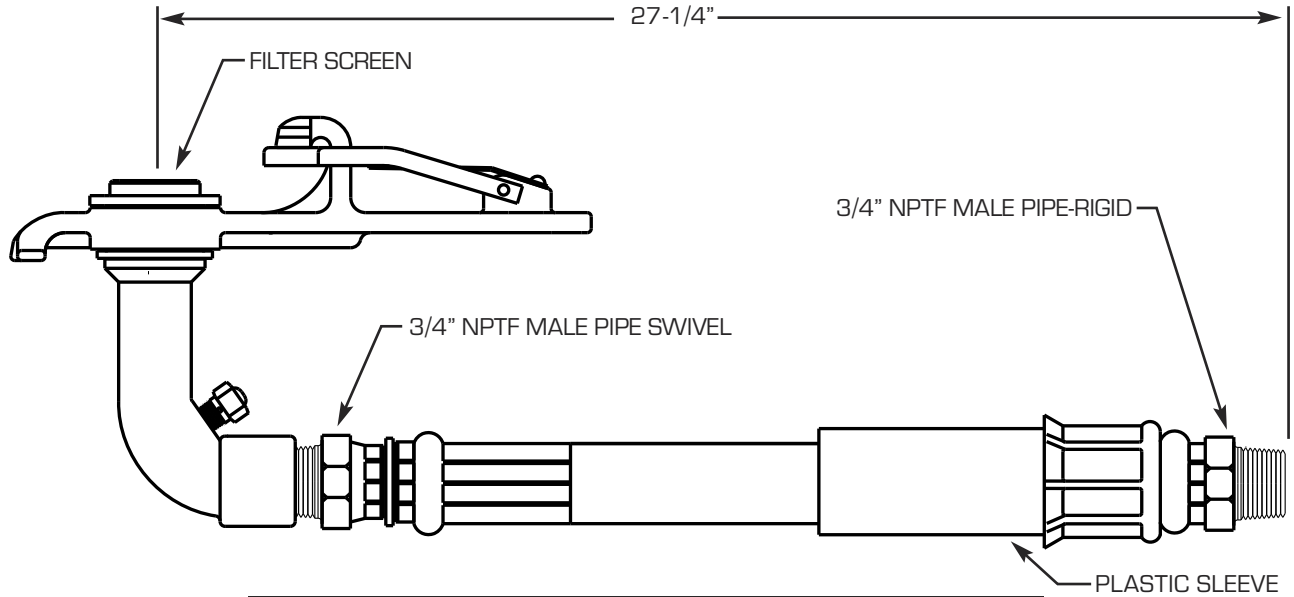
VENT VALVE

| |
|-------------|
| PART # |
| S115 |

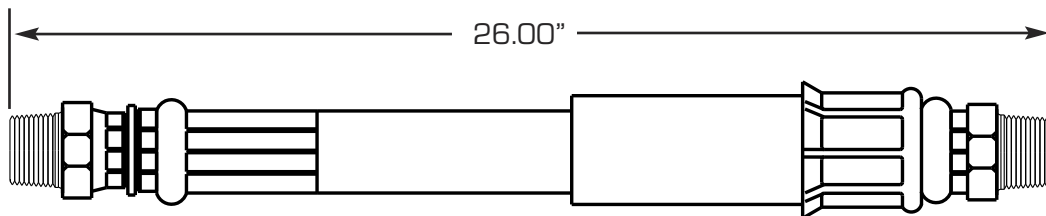
END OF TRAIN TELEMETRY HOSE ASSEMBLIES

INCLUDES COUPLING WITH LOCKING HANDLE 360° SWIVEL ELBOW AND HOSE

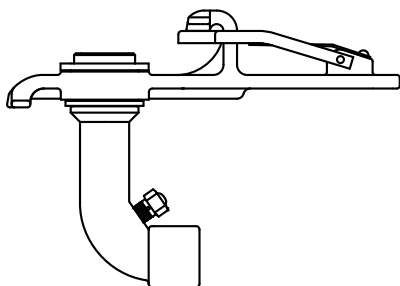
90° *IRON* SWIVEL ELBOW ASSEMBLY



| COMPLETE ASSEMBLY PART # | WEIGHT | FILTER SCREEN |
|--------------------------|--------|---------------|
| EOT420N | 4 LBS. | YES |
| EOT421N | 4 LBS. | NO |



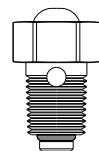
| PART # |
|----------------|
| S212315 |



IRON
90° SWIVEL COUPLING, 3/4\" NPTF
WITH LOCKING HANDLE

| PART # | FILTER SCREEN |
|------------------|---------------|
| FDC1000 | YES |
| FDC1000-N | NO |

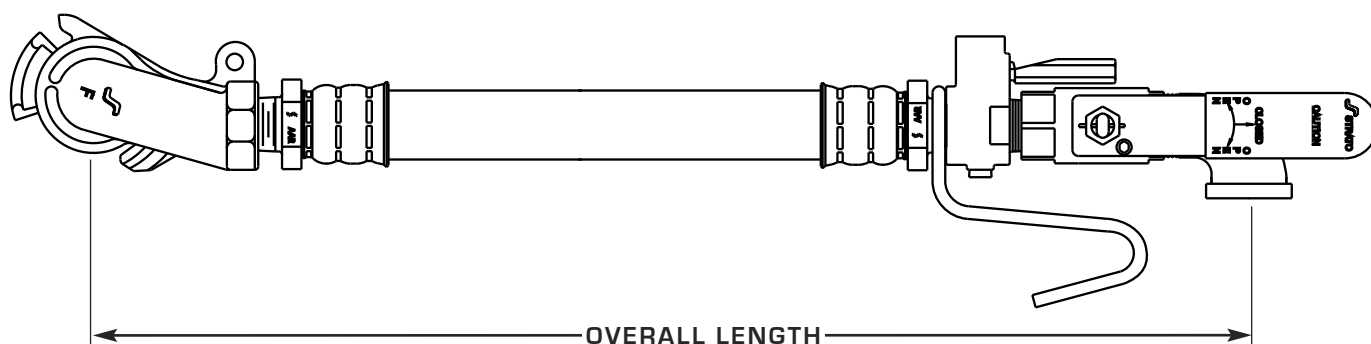
VENT VALVE



| PART # |
|-------------|
| S115 |

BACKUP BRAKE AND WHISTLE VALVE HOSE ASSEMBLIES

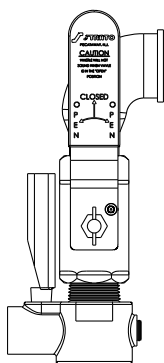
STANDARD ASSEMBLIES



| PART # | O.A.L |
|----------------|-------|
| S275171 | 84" |
| S275174 | 72" |
| S275162 | 96" |
| S275285 | 144" |

ACCESSORIES

BACKUP BRAKE AND WHISTLE VALVE



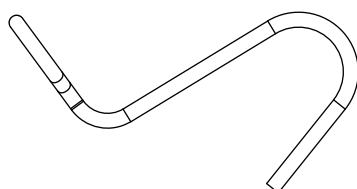
PART #
S80

WHISTLE ONLY



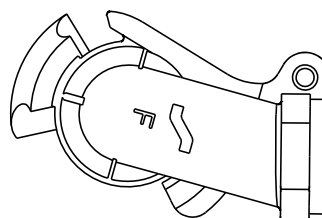
PART #
S80A

HOOK



PART #
S83

GLADHAND - 1" FEMALE PIPE THREAD



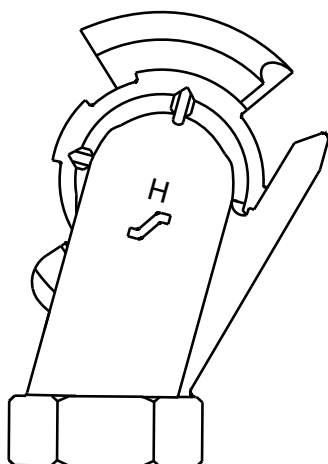
PART #
FS415E

SCREW-ON GLADHANDS

WITH FEMALE PIPE THREADS

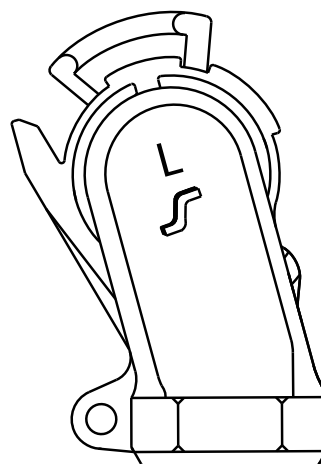
GLADHAND TYPES

TYPE "H"



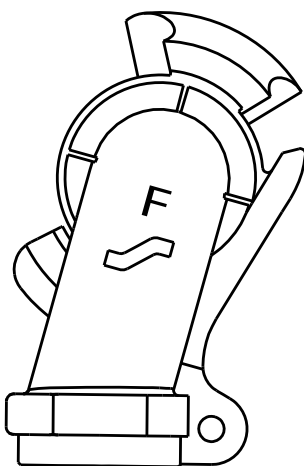
| PART # | THREAD | OFFSET |
|--------------|-----------|--------|
| HS215 | 1/2" NPTF | +15° |
| HS315 | 3/4" NPTF | +15° |
| HS415 | 1" NPTF | +15° |

TYPE "L"



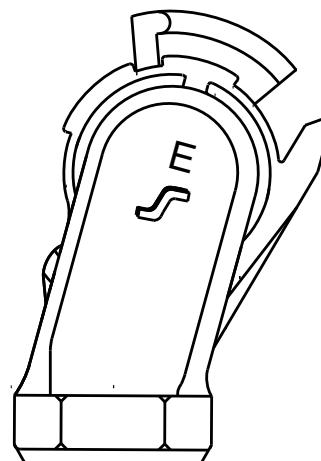
| PART # | THREAD | OFFSET |
|---------------|---------|--------|
| LS415E | 1" NPTF | -15° |

TYPE "F"



| PART # | THREAD | OFFSET |
|---------------|-------------|--------|
| FS515E | 1-1/4" NPTF | +15° |

TYPE "E"

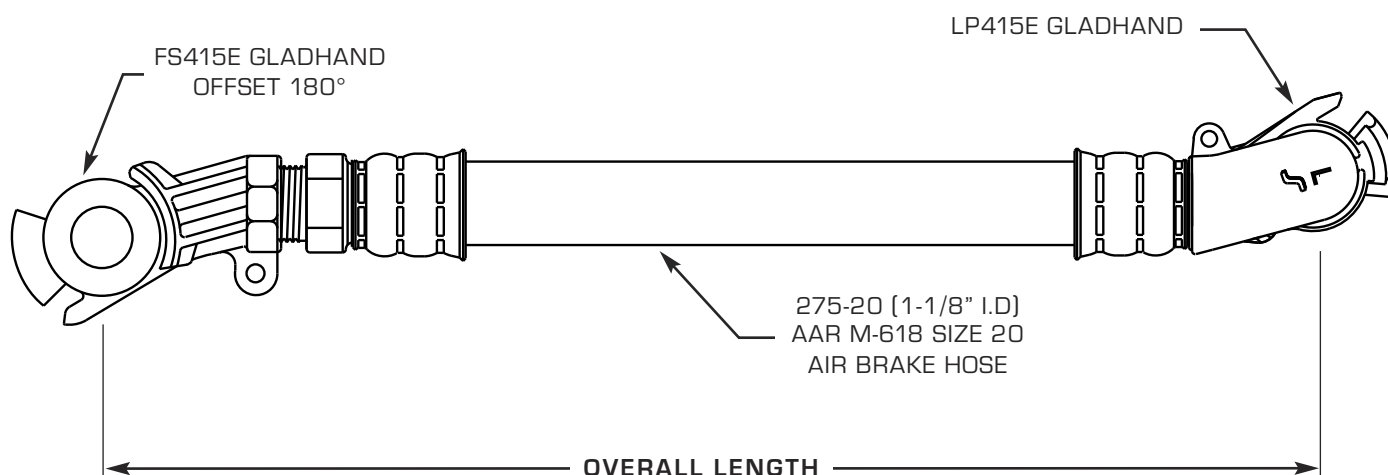


| PART # | THREAD | OFFSET |
|--------------|-----------|--------|
| ES215 | 1/2" NPTF | +15° |
| ES315 | 3/4" NPTF | +15° |
| ES415 | 1" NPTF | +15° |

JUMPER HOSE ASSEMBLIES

HIGH MOUNT TO LOW MOUNT RAPID
DISCHARGE COAL HOPPER CAR CONNECTIONS

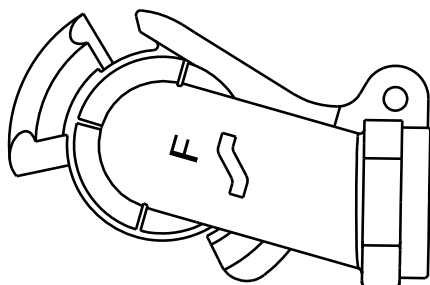
"F" GLADHAND TO "L" GLADHAND JUMPER HOSE



| PART # | O.A.L |
|-----------------|-------|
| S2751001 | 39" |
| S275092 | 45" |
| S275093 | 60" |
| S2751002 | 75" |

ACCESSORIES

"F" GLADHAND - 1" NPTF



PART #
FS415E

GLADHAND GASKET



PART #
G-324



100 New England Avenue • Piscataway, NJ 08854

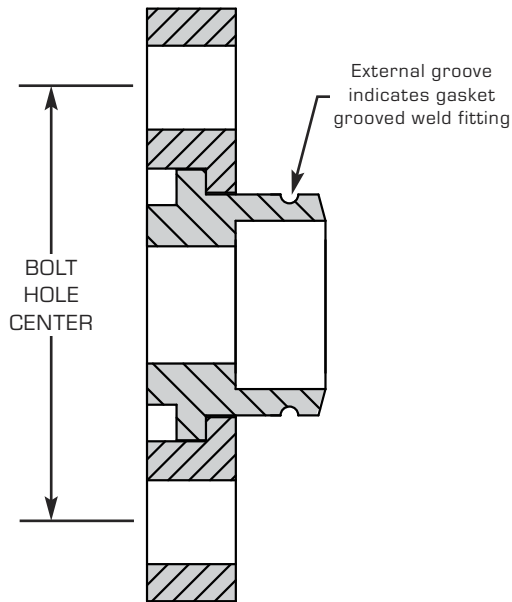
WELD FITTINGS



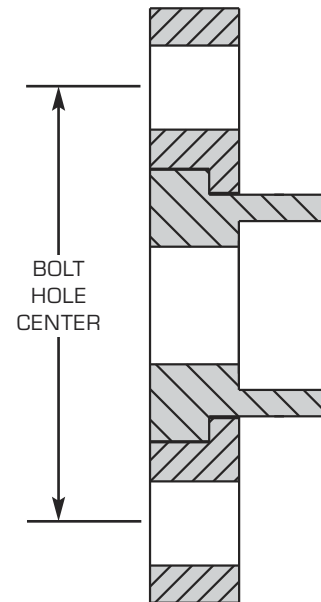
STANDARD SOCKET WELD FITTINGS

FLANGED - WITH OR WITHOUT GROOVE

WITH GROOVE



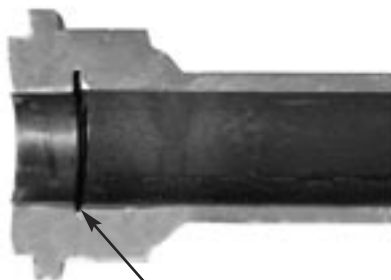
WITHOUT GROOVE



| PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER | PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER |
|----------------|--------|-----------|------------------|-----------------|--------|-----------|------------------|
| SB6-4 | 3/8" | 1/4" | 1.94 | SBF6-4 | 3/8" | 1/4" | 1.94 |
| SB6 | 3/8" | 3/8" | 1.94 | SBF6 | 3/8" | 3/8" | 1.94 |
| SB8 | 1/2" | 1/2" | 2.38 | SBF8 | 1/2" | 1/2" | 2.38 |
| SB12-6 | 3/4" | 3/8" | 2.75 | SBF12-6 | 3/4" | 3/8" | 2.75 |
| SB12-8 | 3/4" | 1/2" | 2.75 | SBF12-8 | 3/4" | 1/2" | 2.75 |
| SB12 | 3/4" | 3/4" | 2.75 | SBF12 | 3/4" | 3/4" | 2.75 |
| SB16-8 | 1" | 1/2" | 3.00 | SBF16-8 | 1" | 1/2" | 3.00 |
| SB16-12 | 1" | 3/4" | 3.00 | SBF16-12 | 1" | 3/4" | 3.00 |
| SB16 | 1" | 1" | 3.00 | SBF16 | 1" | 1" | 3.00 |
| SB20-12 | 1-1/4" | 3/4" | 3.75 | SBF20-12 | 1-1/4" | 3/4" | 3.75 |
| SB20-16 | 1-1/4" | 1" | 3.75 | SBF20-16 | 1-1/4" | 1" | 3.75 |
| SB20 | 1-1/4" | 1-1/4" | 3.75 | SBF20 | 1-1/4" | 1-1/4" | 3.75 |
| SB32-16 | 2" | 1" | 4.88 | SBF32-16 | 2" | 1" | 4.88 |
| SB32-20 | 2" | 1-1/4" | 4.88 | SBF32-20 | 2" | 1-1/4" | 4.88 |
| SB32 | 2" | 2" | 4.88 | SBF32 | 2" | 2" | 4.88 |

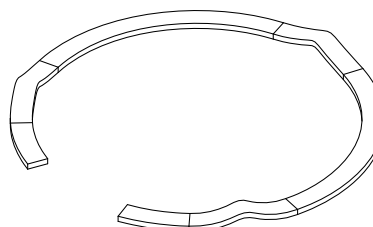
WELD SPACERS AND WELD FITTING GASKETS

SOCKET WELD CONTRACTION RINGS



Socket weld contraction ring contracts to allow for expansion of the pipe into the fitting during welding.

Strato's Weld Spacers provide 1/16" of space, allowing the pipe to expand during welding – eliminating the potential for cracks.



| PART # | PIPE SIZE |
|-------------|-----------|
| WS6 | 3/8" |
| WS8 | 1/2" |
| WS12 | 3/4" |
| WS16 | 1" |
| WS20 | 1-1/4" |

AS PER AAR STANDARD S-402, and ANSI, ASME & U.S. Military Codes

"There should be at least 1/16-in. clearance between the end of the pipe and socket before welding to minimize the potential for failure resulting from thermal or mechanical fatigue."

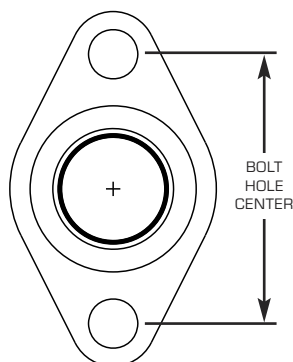
GASKETS FOR FLANGE WELD FITTING



| PART # | FLANGE SIZE |
|----------------|-------------|
| 5401-06 | 3/8" |
| 5401-08 | 1/2" |
| 5401-12 | 3/4" |

| PART # | FLANGE SIZE |
|----------------|-------------|
| 5401-16 | 1" |
| 5401-20 | 1-1/4" |
| 5401-32 | 2" |

FLANGE DIMENSIONS

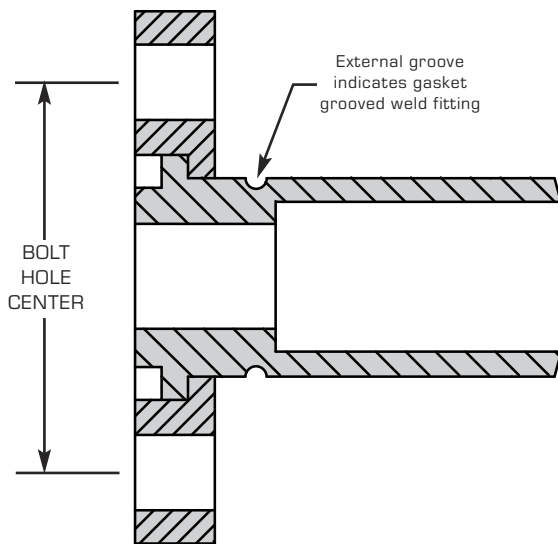


| PART # | FLANGE SIZE | BOLT HOLE CENTER |
|--------------|-------------|------------------|
| SFW6 | 3/8" | 1.94 |
| SFW8 | 1/2" | 2.38 |
| SFW12 | 3/4" | 2.75 |
| SFW16 | 1" | 3.00 |
| SFW20 | 1-1/4" | 3.75 |
| SFW32 | 2" | 4.88 |

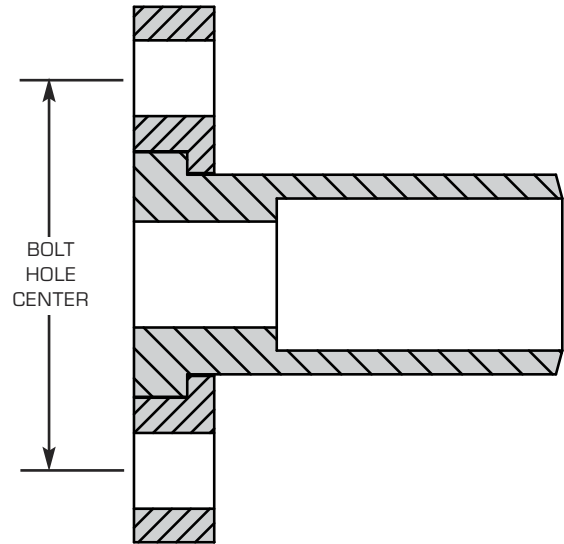
DEEP SOCKET WELD FITTINGS

FLANGED - WITH OR WITHOUT GROOVE

WITH GROOVE



WITHOUT GROOVE

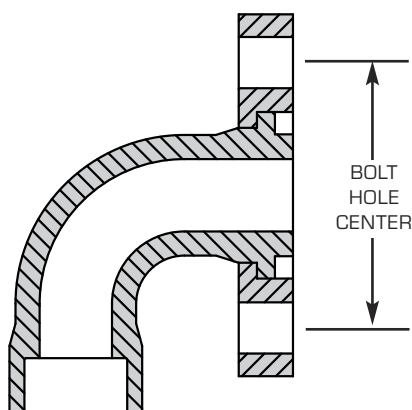


| PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER | PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER |
|-----------------|--------|-----------|------------------|------------------|--------|-----------|------------------|
| SBD6 | 3/8" | 3/8" | 1.94 | SBDF6 | 3/8" | 3/8" | 1.94 |
| SBD8-6 | 1/2" | 3/8" | 2.38 | SBDF8-6 | 1/2" | 3/8" | 2.38 |
| SBD8 | 1/2" | 1/2" | 2.38 | SBDF8 | 1/2" | 1/2" | 2.38 |
| SBD12-6 | 3/4" | 3/8" | 2.75 | SBDF12 | 3/4" | 3/4" | 2.75 |
| SBD12-8 | 3/4" | 1/2" | 2.75 | SBDF16-12 | 1" | 3/4" | 3.00 |
| SBD12 | 3/4" | 3/4" | 2.75 | SBDF16 | 1" | 1" | 3.00 |
| SBD16-12 | 1" | 3/4" | 3.00 | SBDF20 | 1-1/4" | 1-1/4" | 3.75 |
| SBD16 | 1" | 1" | 3.00 | | | | |
| SBD20 | 1-1/4" | 1-1/4" | 3.75 | | | | |

90° AND 45° SOCKET WELD FITTINGS

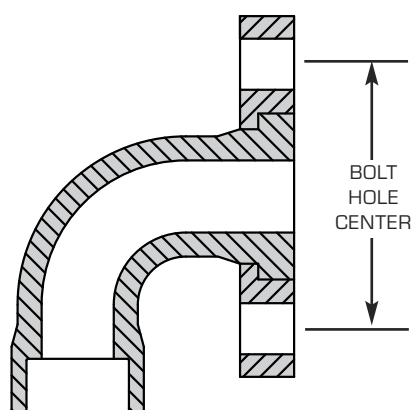
WITH GROOVE

90°



WITHOUT GROOVE

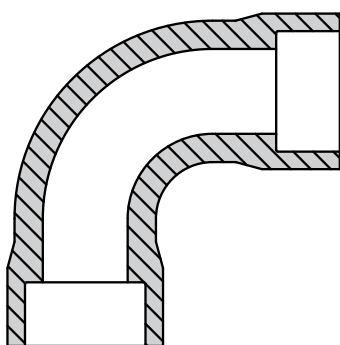
90°



| PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER |
|------------------|--------|-----------|------------------|
| SB90-6 | 3/8" | 3/8" | 1.94 |
| SB90-8 | 1/2" | 1/2" | 2.38 |
| SB90-12-8 | 3/4" | 1/2" | 2.75 |
| SB90-12 | 3/4" | 3/4" | 2.75 |
| SB90-16 | 1" | 1" | 3.00 |

| PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER |
|-------------------|--------|-----------|------------------|
| SBF90-12-8 | 3/4" | 1/2" | 2.75 |
| SBF90-12 | 3/4" | 3/4" | 2.75 |
| | | | |
| | | | |
| | | | |

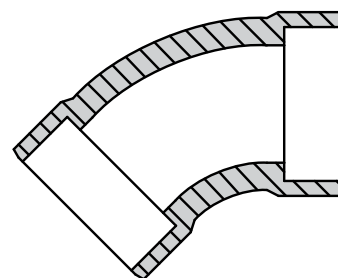
90°



Certain sizes are castings, some are forged.
Please call for drawing.

| PART # | PIPE SIZE |
|-----------------|-----------|
| SBS90-6 | 3/8" |
| SBS90-8 | 1/2" |
| SBS90-12 | 3/4" |
| SBS90-16 | 1" |

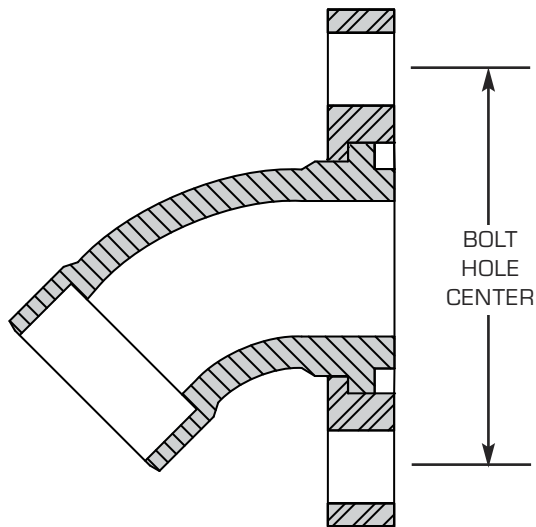
45°



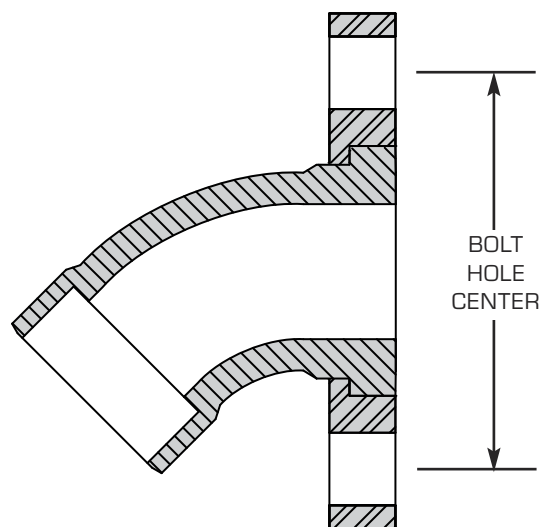
| PART # | PIPE SIZE |
|------------------|-----------|
| SBS45-12 | 3/4" |
| SBS45S-16 | 1" |
| SBS45-20 | 1-1/4" |

45° SOCKET WELD FITTINGS

WITH GROOVE

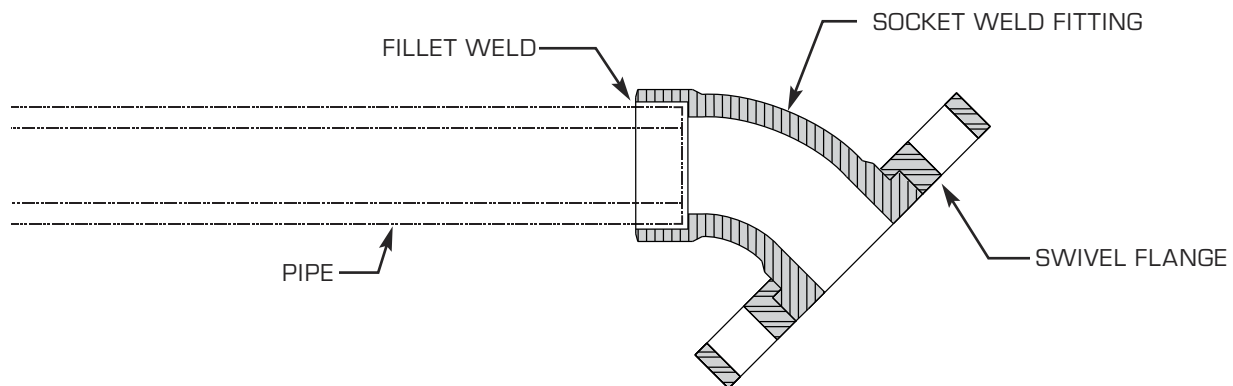


WITHOUT GROOVE



| PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER | PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER |
|----------------|--------|-----------|------------------|-----------------|--------|-----------|------------------|
| SB45-12 | 3/4" | 3/4" | 2.75 | SBF45-12 | 3/4" | 3/4" | 2.75 |
| SB45-16 | 1" | 1" | 3.00 | SBF45-20 | 1-1/4" | 1-1/4" | 3.75 |
| SB45-20 | 1-1/4" | 1-1/4" | 3.75 | | | | |

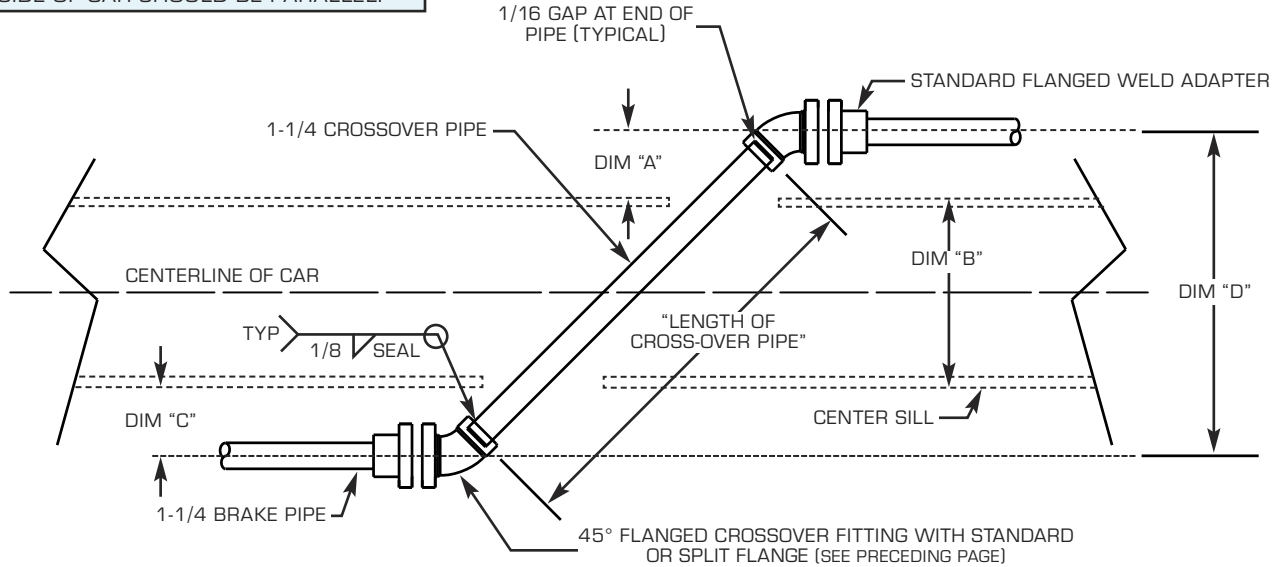
TYPICAL INSTALLATION



CROSSOVER APPLICATION

MAIN TRAINLINE UTILIZING SBF45-20 & SB20 DIRECTIONS FOR DETERMINING THE LENGTH OF THE CROSS-OVER PIPE

NOTE: BRAKE PIPE LINES ON LEFT AND RIGHT SIDE OF CAR SHOULD BE PARALLEL.

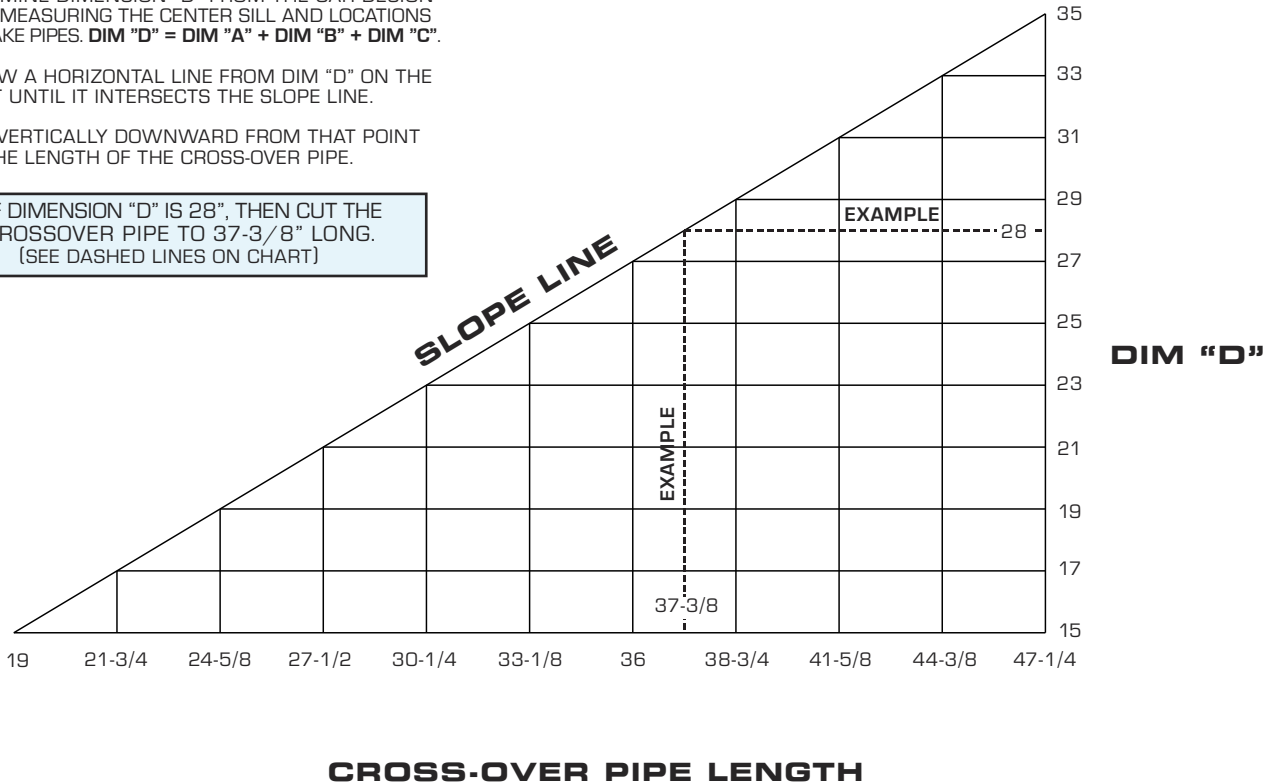


STEP 1: DETERMINE DIMENSION "D" FROM THE CAR DESIGN OR BY MEASURING THE CENTER SILL AND LOCATIONS OF BRAKE PIPES. **DIM "D" = DIM "A" + DIM "B" + DIM "C".**

STEP 2: FOLLOW A HORIZONTAL LINE FROM DIM "D" ON THE CHART UNTIL IT INTERSECTS THE SLOPE LINE.

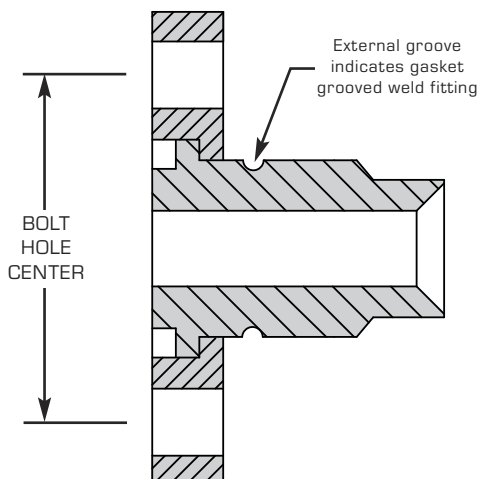
STEP 3: READ VERTICALLY DOWNWARD FROM THAT POINT FOR THE LENGTH OF THE CROSS-OVER PIPE.

EXAMPLE: IF DIMENSION "D" IS 28", THEN CUT THE CROSSOVER PIPE TO 37-3/8" LONG. (SEE DASHED LINES ON CHART)

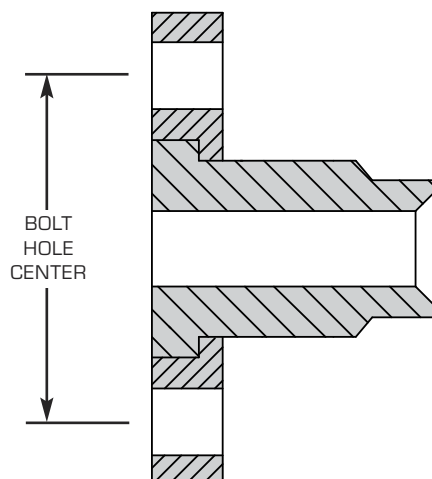


INTERNAL SOCKET WELD FITTINGS FLANGED REDUCING FITTINGS

WITH GROOVE

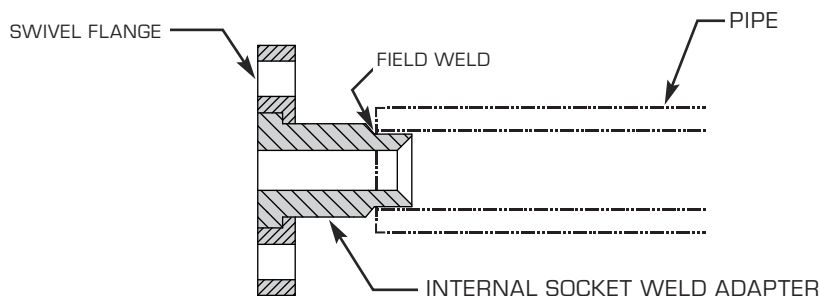


WITHOUT GROOVE



| PART # | PIPE SIZE | FLANGE | BOLT HOLE CENTER | PART # | PIPE SIZE | FLANGE | BOLT HOLE CENTER |
|------------------|-----------|--------|------------------|------------------|-----------|--------|------------------|
| ISWG8-6 | 1/2" | 3/8" | 1.94 | ISWB8-6 | 1/2" | 3/8" | 1.94 |
| ISWG12-6 | 3/4" | 3/8" | 1.94 | ISWB12-6 | 3/4" | 3/8" | 1.94 |
| ISWG12-8 | 3/4" | 1/2" | 2.38 | ISWB12-8 | 3/4" | 1/2" | 2.38 |
| ISWG16-8 | 1" | 1/2" | 2.38 | ISWB16-8 | 1" | 1/2" | 2.38 |
| ISWG16-12 | 1" | 3/4" | 2.75 | ISWB16-12 | 1" | 3/4" | 2.75 |
| ISWG20-12 | 1-1/4" | 3/4" | 2.75 | ISWB20-12 | 1-1/4" | 3/4" | 2.75 |
| ISWG20-16 | 1-1/4" | 1" | 3.00 | ISWB20-16 | 1-1/4" | 1" | 3.00 |
| ISWG32-20 | 2" | 1-1/4" | 3.75 | ISWB32-20 | 2" | 1-1/4" | 3.75 |

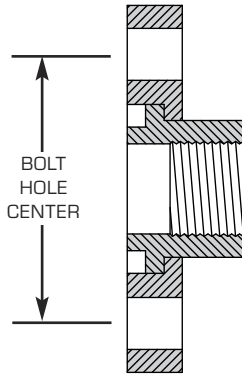
TYPICAL INSTALLATION



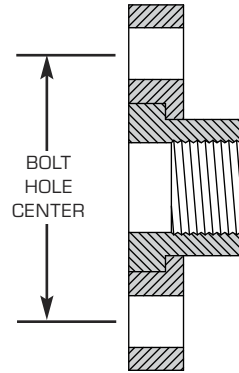
FLANGED THREADED SWIVEL FITTINGS

STANDARD AND LONG LENGTH WITH OR WITHOUT GASKET GROOVE

STANDARD WITH GROOVE

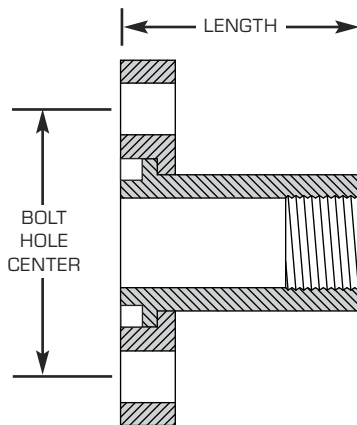


STANDARD WITHOUT GROOVE

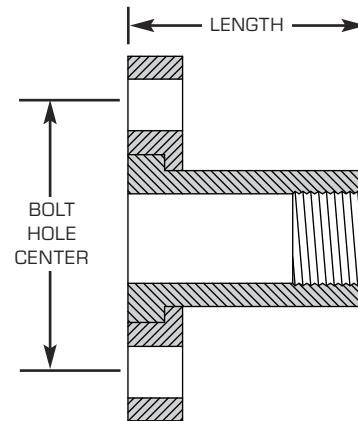


| PART # | FLANGE | PIPE THREAD | BOLT HOLE CENTER | PART # | FLANGE | PIPE THREAD | BOLT HOLE CENTER |
|------------------|--------|-------------|------------------|------------------|--------|-------------|------------------|
| FTF6-6G | 3/8" | 3/8" | 1.94 | FTF6-6B | 3/8" | 3/8" | 1.94 |
| FTF8-8G | 1/2" | 1/2" | 2.38 | FTF8-8B | 1/2" | 1/2" | 2.38 |
| FTF12-12G | 3/4" | 3/4" | 2.75 | FTF12-12B | 3/4" | 3/4" | 2.75 |
| FTF16-16G | 1" | 1" | 3.00 | FTF16-16B | 1" | 1" | 3.00 |
| FTF20-20G | 1-1/4" | 1-1/4" | 3.75 | FTF20-12B | 1-1/4" | 3/4" | 3.75 |
| FTF20-12G | 1-1/4" | 3/4" | 3.75 | FTF20-20B | 1-1/4" | 1-1/4" | 3.75 |
| FTF20-16G | 1-1/4" | 1" | 3.75 | | | | |

LONG WITH GROOVE



LONG WITHOUT GROOVE

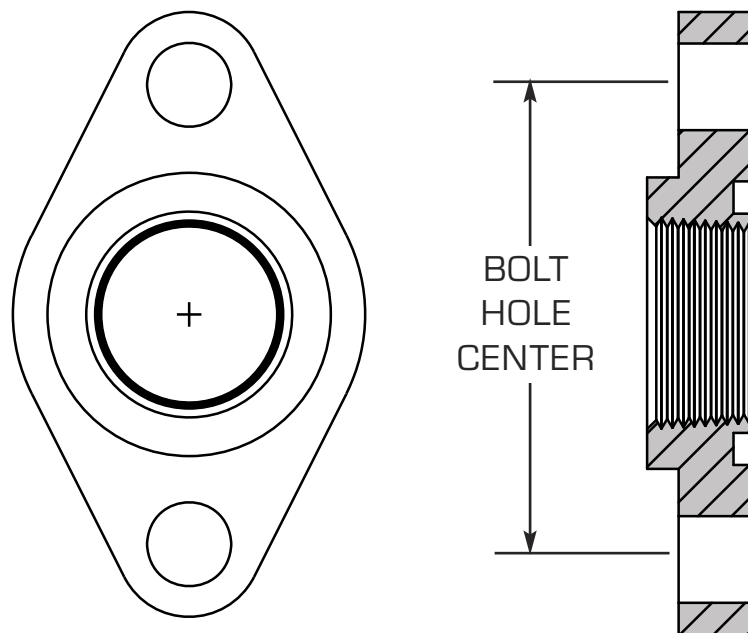


| PART # | FLANGE | PIPE THREAD | LENGTH | BOLT HOLES | PART # | FLANGE | PIPE THREAD | LENGTH | BOLT HOLES |
|-------------------|--------|-------------|--------|------------|-------------------|--------|-------------|--------|------------|
| FTF6-6GL | 3/8" | 3/8" | 1.88 | 1.94 | FTF6-6BL | 3/8" | 3/8" | 1.88 | 1.94 |
| FTF8-8GL | 1/2" | 1/2" | 2.00 | 2.38 | FTF8-8BL | 1/2" | 1/2" | 2.00 | 2.38 |
| FTF12-12GL | 3/4" | 3/4" | 2.25 | 2.75 | FTF12-12BL | 3/4" | 3/4" | 2.25 | 2.75 |
| FTF16-16GL | 1" | 1" | 2.50 | 3.00 | FTF16-16BL | 1" | 1" | 2.50 | 3.00 |
| FTF20-20GL | 1-1/4" | 1-1/4" | 3.00 | 3.75 | FTF20-20BL | 1-1/4" | 1-1/4" | 3.00 | 3.75 |

ONE PIECE THREADED FLANGE FITTINGS

WITH OR WITHOUT GASKET GROOVE

WITH GROOVE

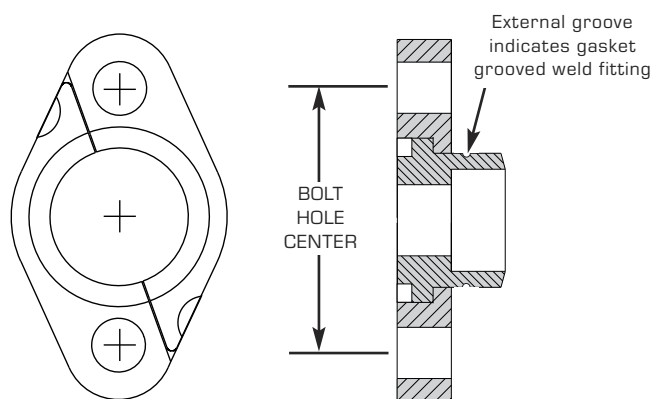


| PART # | FLANGE | PIPE THREAD | BOLT HOLE CENTER |
|-------------|--------|-------------|------------------|
| S63 | 3/8" | 1/4" | 1.94 |
| S63A | 3/8" | 3/8" | 1.94 |
| S64G | 3/4" | 1/4" | 2.75 |
| TF20 | 1-1/4" | 1-1/4" | 3.75 |

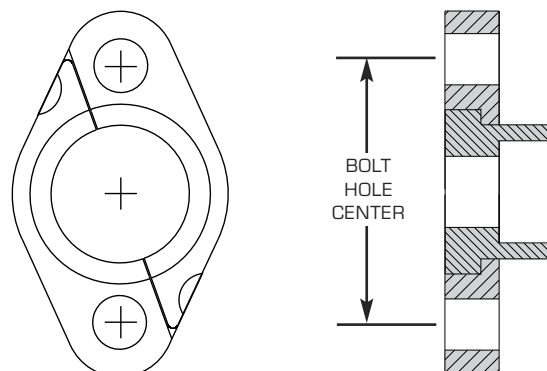
STANDARD SPLIT FLANGE SOCKET WELD FITTINGS

STANDARD AND DEEP WITH OR WITHOUT GASKET GROOVE

STANDARD WITH GROOVE

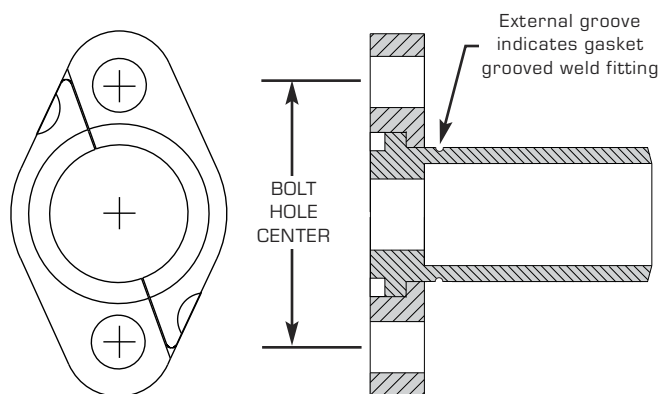


STANDARD WITHOUT GROOVE

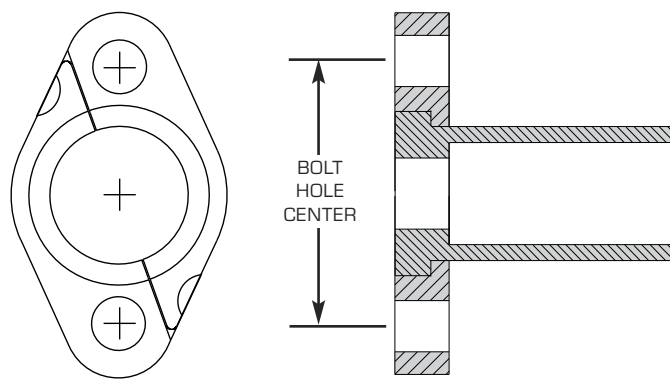


| PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER | PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER |
|---------------|--------|-----------|------------------|---------------|--------|-----------|------------------|
| SFSG6 | 3/8" | 3/8" | 1.94 | SFSB6 | 3/8" | 3/8" | 1.94 |
| SFSG8 | 1/2" | 1/2" | 2.38 | SFSB8 | 1/2" | 1/2" | 2.38 |
| SFSG12 | 3/4" | 3/4" | 2.75 | SFSB12 | 3/4" | 3/4" | 2.75 |
| SFSG16 | 1" | 1" | 3.00 | SFSB16 | 1" | 1" | 3.00 |
| SFSG20 | 1-1/4" | 1-1/4" | 3.75 | SFSB20 | 1-1/4" | 1-1/4" | 3.75 |

DEEP WITH GROOVE

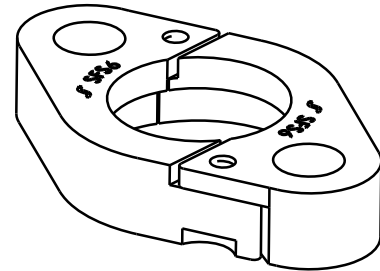
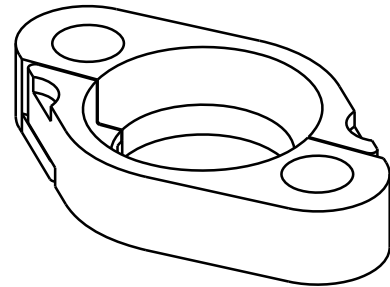
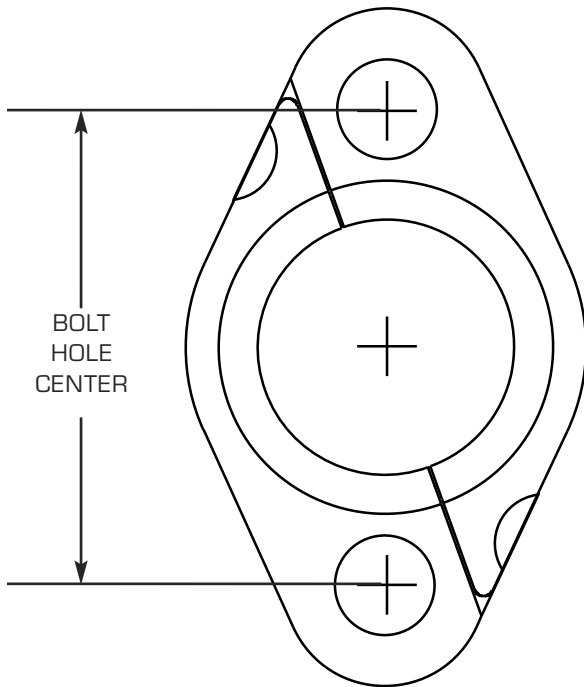


DEEP WITHOUT GROOVE



| PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER | PART # | FLANGE | PIPE SIZE | BOLT HOLE CENTER |
|----------------|--------|-----------|------------------|----------------|--------|-----------|------------------|
| SFSGD6 | 3/8" | 3/8" | 1.94 | SFSBD6 | 3/8" | 3/8" | 1.94 |
| SFSGD8 | 1/2" | 1/2" | 2.38 | SFSBD8 | 1/2" | 1/2" | 2.38 |
| SFSGD12 | 3/4" | 3/4" | 2.75 | SFSBD12 | 3/4" | 3/4" | 2.75 |
| SFSGD16 | 1" | 1" | 3.00 | SFSBD16 | 1" | 1" | 3.00 |
| SFSGD20 | 1-1/4" | 1-1/4" | 3.75 | SFSBD20 | 1-1/4" | 1-1/4" | 3.75 |

SPLIT FLANGES

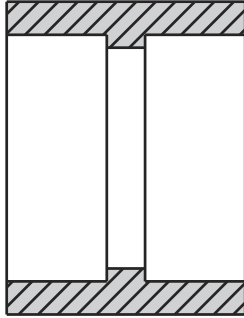


| PART # | FLANGE | BOLT HOLE CENTER |
|--------------|--------|------------------|
| SFS6 | 3/8" | 1.94 |
| SFS8 | 1/2" | 2.38 |
| SFS12 | 3/4" | 2.75 |
| SFS16 | 1" | 3.00 |
| SFS20 | 1-1/4" | 3.75 |

SOCKET WELD UNIONS

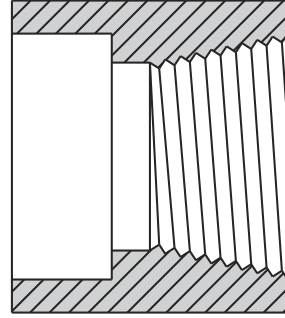
STANDARD AND DEEP

STANDARD SOCKET WELD UNION



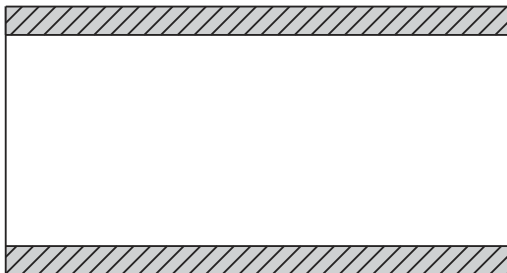
| PART # | PIPE SIZE |
|--------------|-----------|
| SWS6 | 3/8" |
| SWS8 | 1/2" |
| SWS12 | 3/4" |
| SWS16 | 1" |
| SWS20 | 1-1/4" |

STANDARD SOCKET WELD BY NPTF



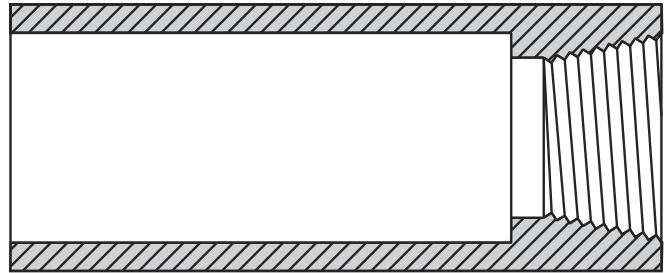
| PART # | PIPE SIZE | PIPE THREAD |
|---------------|-----------|-------------|
| SWTS6 | 3/8" | 3/8" |
| SWTS8 | 1/2" | 1/2" |
| SWTS12 | 3/4" | 3/4" |
| SWTS16 | 1" | 1" |
| SWTS20 | 1-1/4" | 1-1/4" |

DEEP SOCKET WELD UNION



| PART # | PIPE SIZE |
|---------------|-----------|
| SWD6 | 3/8" |
| SWD8 | 1/2" |
| SWD12 | 3/4" |
| SWD16 | 1" |
| SWD20 | 1-1/4" |
| SWD20L | 1-1/4" |
| SWD20S | 1-1/4" |

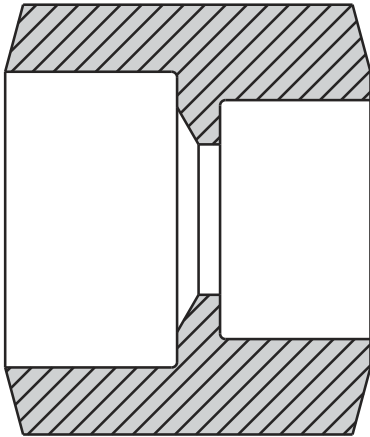
DEEP SOCKET WELD BY NPTF



| PART # | PIPE SIZE | PIPE THREAD |
|---------------|-----------|-------------|
| SWTD12 | 3/4" | 3/4" |
| SWTD16 | 1" | 1" |
| SWTD20 | 1-1/4" | 1-1/4" |

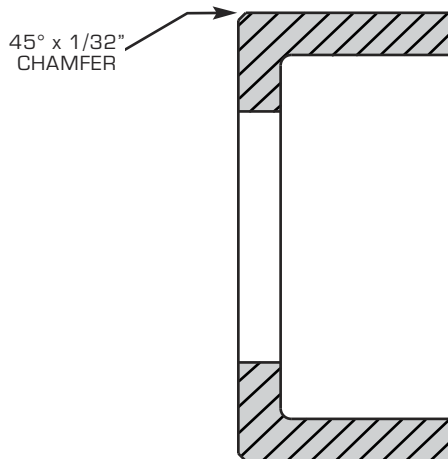
REDUCING SOCKET WELD UNIONS AND SOCKET WELD INSERTS TO REDUCE PIPE SIZE

WELD UNIONS



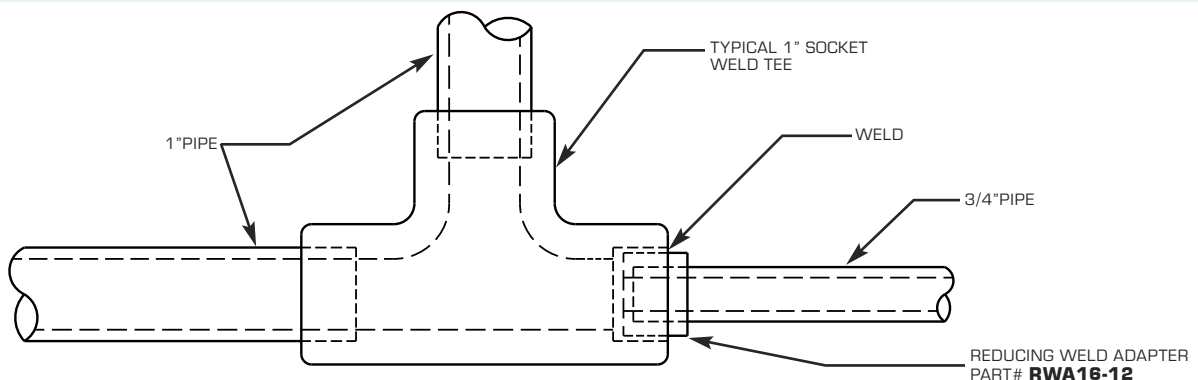
| PART # | PIPE SIZE |
|-----------------|---------------|
| RSW8-6 | 1/2" - 3/8" |
| RSW12-8 | 3/4" - 1/2" |
| RSW16-8 | 1" - 1/2" |
| RSW16-12 | 1" - 3/4" |
| RSW20-6 | 1-1/4" - 3/8" |
| RSW20-12 | 1-1/4" - 3/4" |

WELD INSERTS



| PART # | PIPE SIZE |
|-----------------|---------------|
| RWA8-6 | 1/2" - 3/8" |
| RWA12-6 | 3/4" - 3/8" |
| RWA12-8 | 3/4" - 1/2" |
| RWA16-6 | 1" - 3/8" |
| RWA16-8 | 1" - 1/2" |
| RWA16-12 | 1" - 3/4" |
| RWA20-6 | 1-1/4" - 3/8" |
| RWA20-8 | 1-1/4" - 1/2" |
| RWA20-12 | 1-1/4" - 3/4" |
| RWA20-16 | 1-1/4" - 1" |
| RWA32-20 | 2" - 1-1/4" |

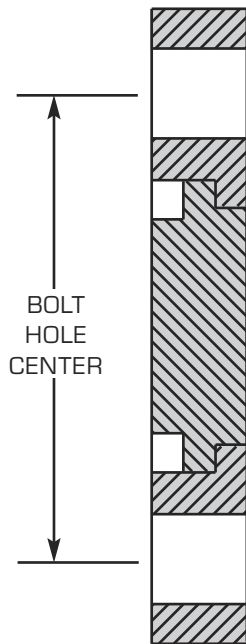
TYPICAL INSTALLATION



BLANK SWIVEL FLANGES

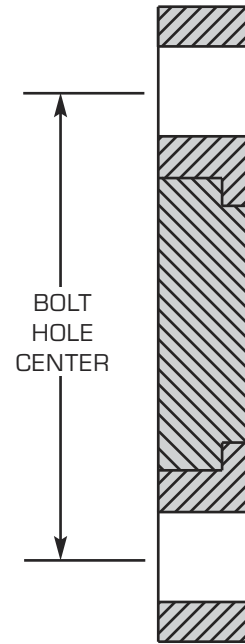
WITH OR WITHOUT GASKET GROOVE

WITH GROOVE



| PART # | FLANGE | BOLT HOLE CENTER |
|---------------|--------|------------------|
| BSFG6 | 3/8" | 1.94 |
| BSFG8 | 1/2" | 2.38 |
| BSFG12 | 3/4" | 2.75 |
| BSFG16 | 1" | 3.00 |
| BSFG20 | 1-1/4" | 3.75 |

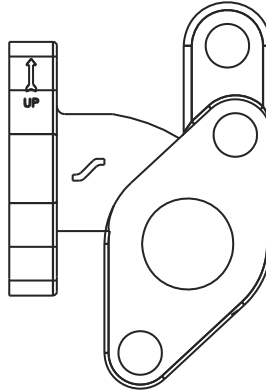
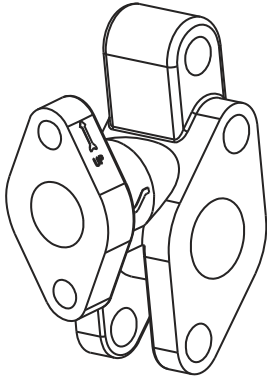
WITHOUT GROOVE



| PART # | FLANGE | BOLT HOLE CENTER |
|--------------|--------|------------------|
| BSF6 | 3/8" | 1.94 |
| BSF8 | 1/2" | 2.38 |
| BSF16 | 1" | 3.00 |
| BSF20 | 1-1/4" | 3.75 |

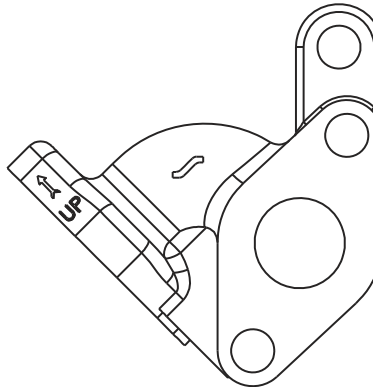
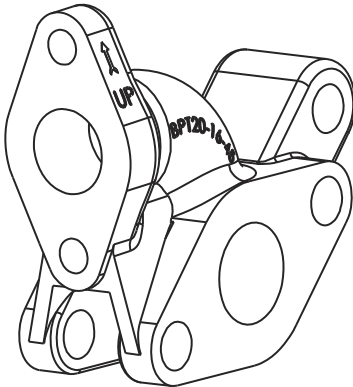
FLANGED BRANCH PIPE TEES

1-1/4" x 1-1/4" x 1" BRANCH PIPE TEE WITH SIDE OUTLET



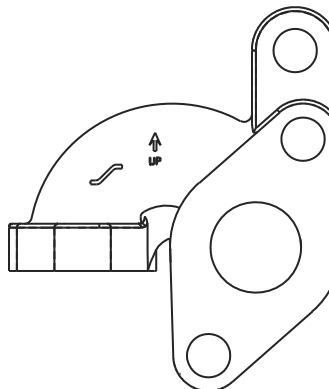
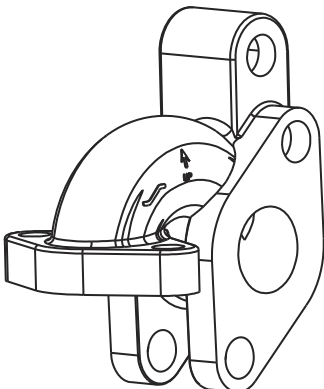
| PART # |
|-----------------|
| BPT20-16 |

1-1/4" x 1-1/4" x 1" BRANCH PIPE TEE WITH 45° SIDE OUTLET



| PART # |
|--------------------|
| BPT20-16-45 |

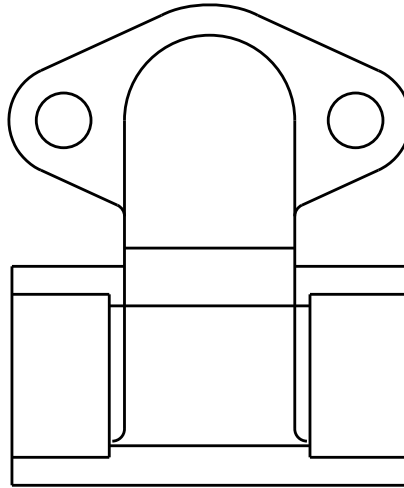
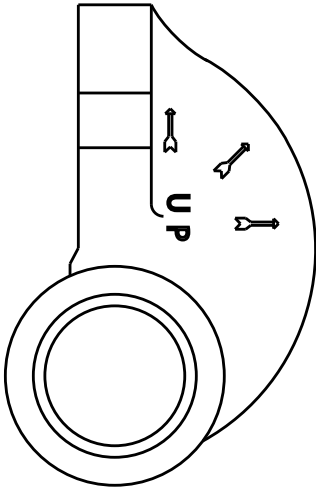
1-1/4" x 1-1/4" x 1" BRANCH PIPE TEE WITH BOTTOM OUTLET



| PART # |
|--------------------|
| BPT20-16-90 |

SOCKET WELD BRANCH PIPE TEES

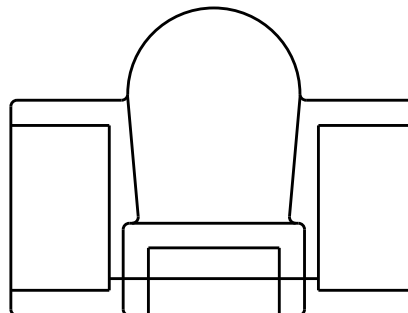
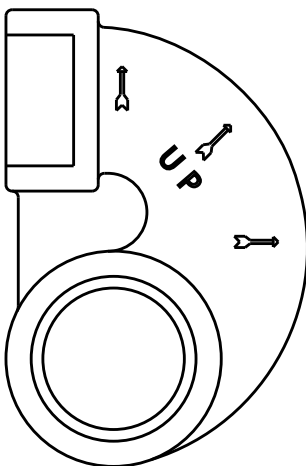
1-1/4" x 1-1/4" x 1" SOCKET WELD BY BRANCH PIPE TEE



PART #

SWBT20-16

1-1/4" x 1-1/4" x 1" SOCKET x SOCKET WELD BRANCH PIPE TEE



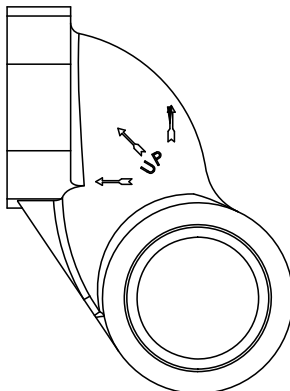
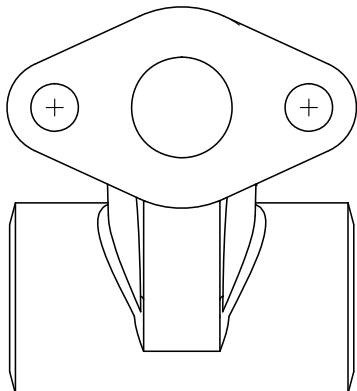
PART #

SBS20-16

FLANGED BRANCH PIPE TEES

USED WHEN CONTROL VALVE IS MOUNTED ABOVE THE BRANCH PIPE TEE

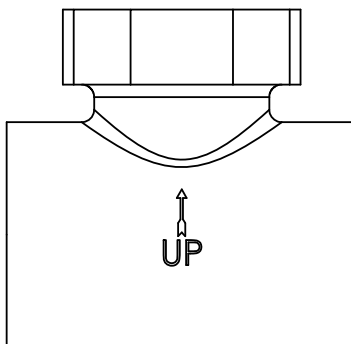
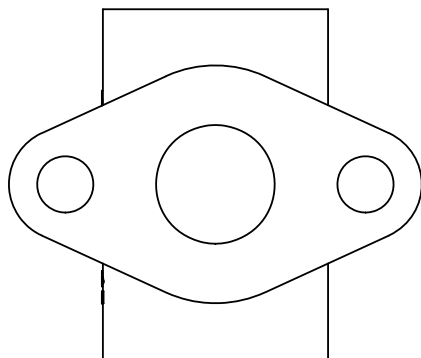
1-1/4" x 1-1/4" x 1" SOCKET WELD BY FLANGED BRANCH PIPE TEE



PART #

SWBT20-16N

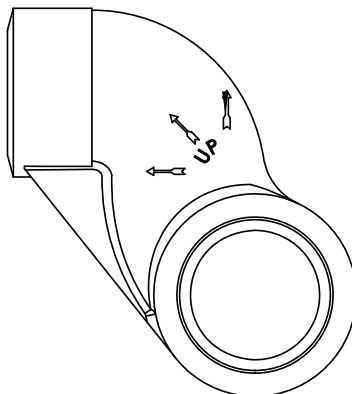
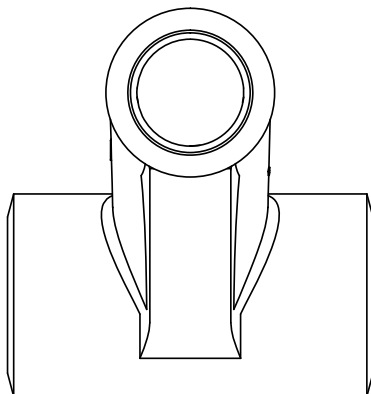
1-1/4" x 1-1/4" x 1" SOCKET WELD BY FLANGED BRANCH PIPE TEE



PART #

SWT20-16F

1-1/4" x 1-1/4" x 1" SOCKET WELD BRANCH PIPE TEE - ALTERNATE OUTLET

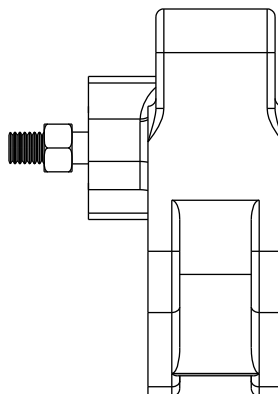
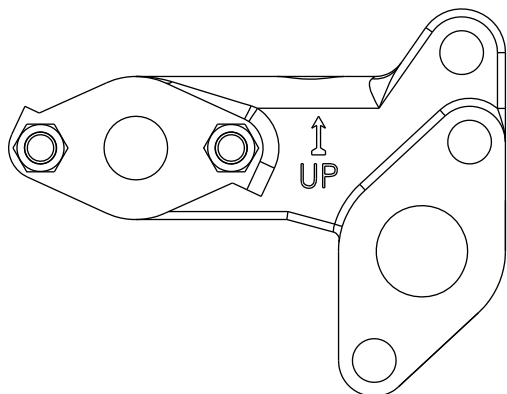


PART #

SBS20-16N

BRANCH PIPE ADAPTER TEES

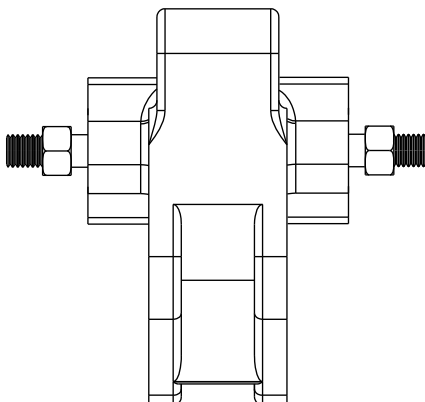
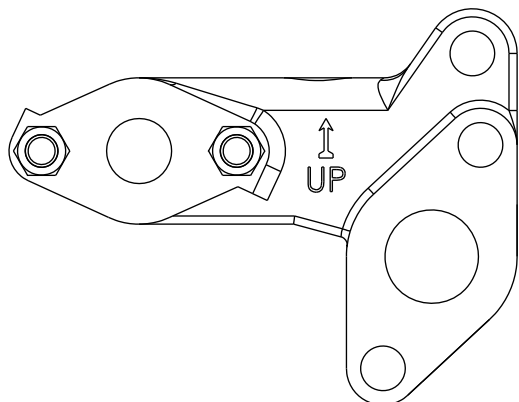
1-1/4" x 1-1/4" x 1" BRANCH PIPE TEE ASSEMBLY FOR #8 VENT VALVE



PART #

BPTVV20-16

1-1/4" x 1-1/4" x 1" BRANCH PIPE TEE ASSEMBLY FOR #8 VENT VALVE



PART #

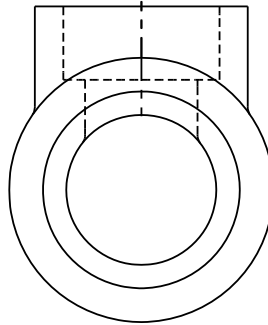
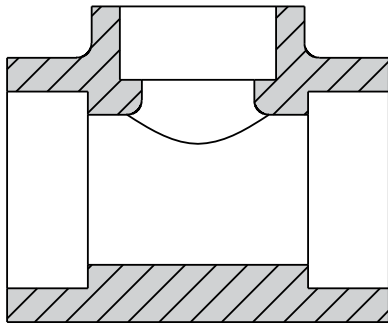
BPTVV20-16D

For use on cars with a brake pipe exceeding 75' in length when an emergency vent valve is needed or to facilitate connection between brake pipe and KM-2 or #8 Vent Valve.

Zinc plated bolt studs with nuts included.

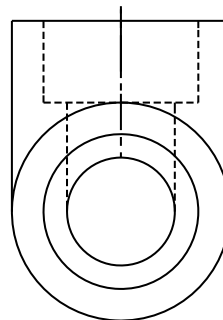
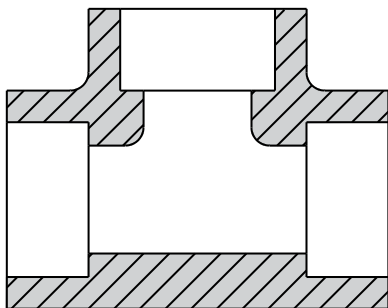
SOCKET WELD TEES

1-1/4" x 1-1/4" x 1" SOCKET WELD PIPE TEE



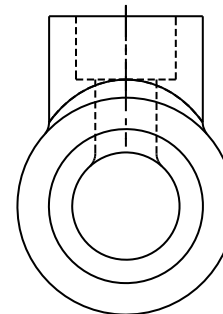
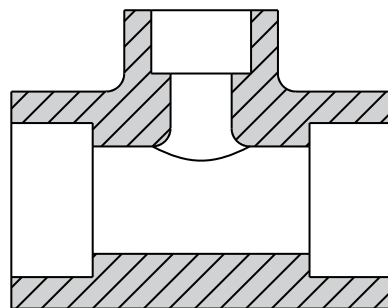
| |
|-----------------|
| PART # |
| SWT20-16 |

3/4" x 3/4" x 3/4" SOCKET WELD PIPE TEE



| |
|-----------------|
| PART # |
| SWT12-12 |

3/4" x 3/4" x 3/8" SOCKET WELD PIPE TEE

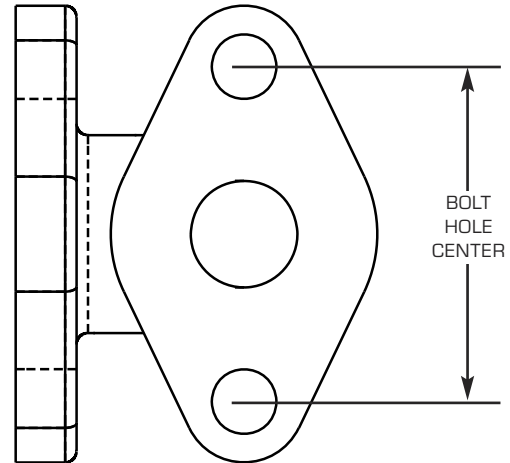
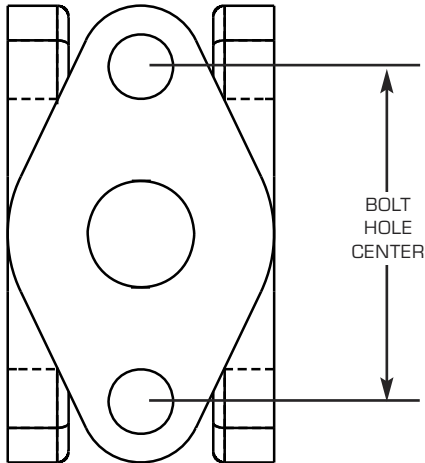


| |
|----------------|
| PART # |
| SWT12-6 |

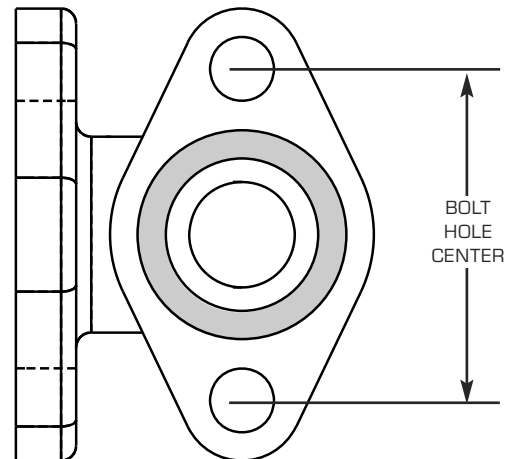
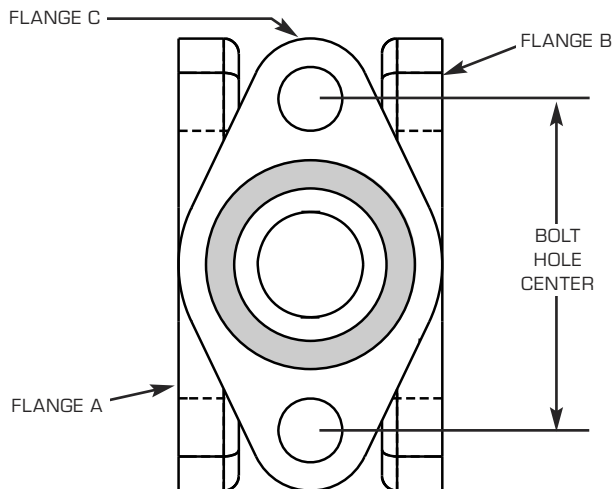
3/4" FLANGED TEE FITTINGS

WITHOUT GASKET GROOVE

| PART # | BOLT HOLE CENTER |
|-----------------|------------------|
| RFF12-12 | 2.75 |



WITH GASKET GROOVE



| PART # | GROOVE LOCATION | BOLT HOLE CENTER |
|---------------------|-----------------|------------------|
| RFF12-12GA | FLANGE - A | 2.75 |
| RFF12-12GAC | FLANGE - A+C | 2.75 |
| RFF12-12GABC | FLANGE - A+B+C | 2.75 |

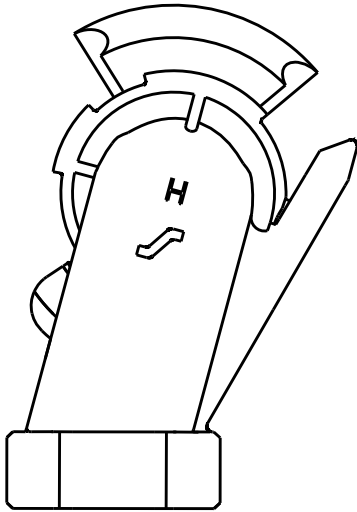


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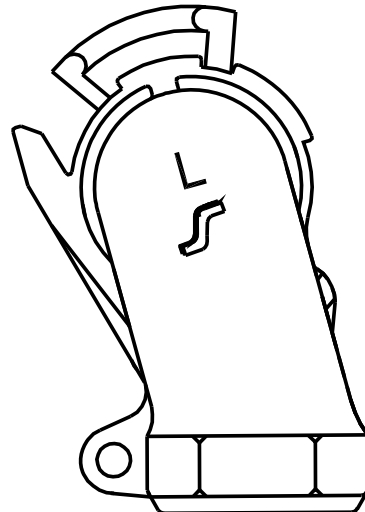
COUPLINGS



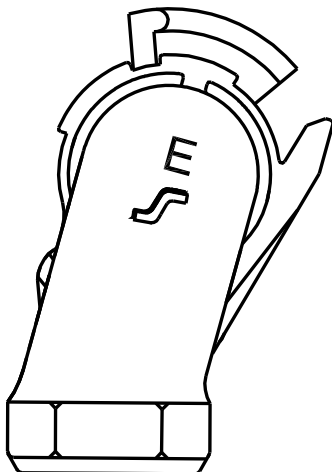
SCREW-ON GLADHANDS WITH FEMALE PIPE THREADS



| PART # | THREAD | OFFSET |
|--------------|-----------|--------|
| HS215 | 1/2" NPTF | +15° |
| HS315 | 3/4" NPTF | +15° |



| PART # | THREAD | OFFSET |
|---------------|---------|--------|
| LS415E | 1" NPTF | -15° |



| PART # | THREAD | OFFSET |
|--------------|-----------|--------|
| ES215 | 1/2" NPTF | +15° |
| ES315 | 3/4" NPTF | +15° |
| ES415 | 1" NPTF | +15° |

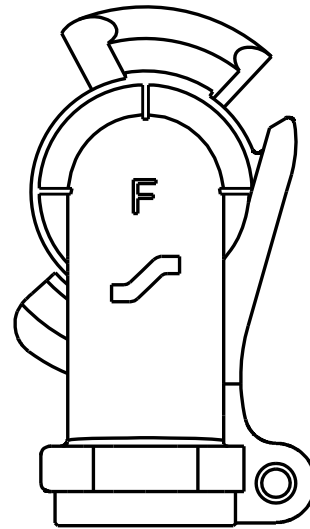


SCREW-ON GLADHANDS

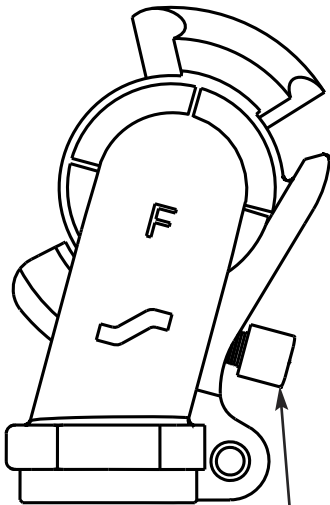
WITH FEMALE PIPE THREADS



| PART # | THREAD | OFFSET |
|---------------|-------------|--------|
| FS315E | 3/4" NPTF | +15° |
| FS415E | 1" NPTF | +15° |
| FS515E | 1-1/4" NPTF | +15° |

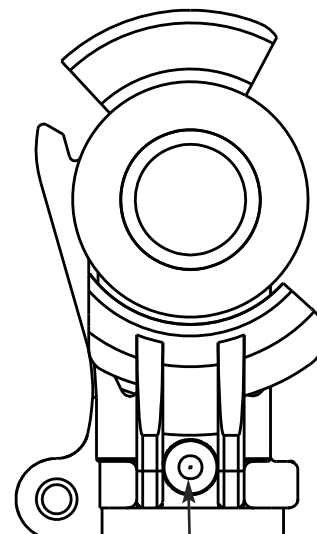


| PART # | THREAD | OFFSET |
|---------------|-----------|--------|
| FS300E | 3/4" NPTF | 0° |
| FS400E | 1" NPTF | 0° |



Vent Valve

| PART # | TYPE | THREAD |
|----------------|------|-----------|
| FS315EB | FS-3 | 3/4" NPTF |
| FS415EB | FS-4 | 1" NPTF |



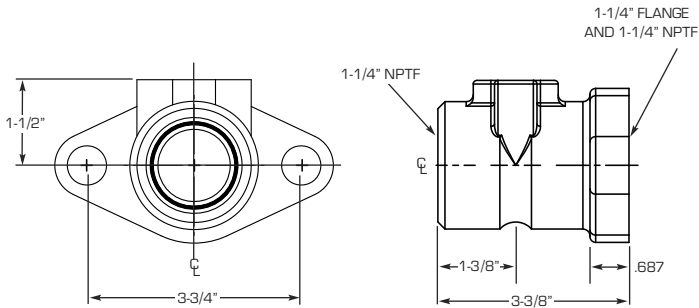
Vent Valve

| PART # | TYPE | THREAD |
|----------------|------|---------|
| FS400EB | FS-4 | 1" NPTF |

TRAINLINE SUPPORT CASTINGS

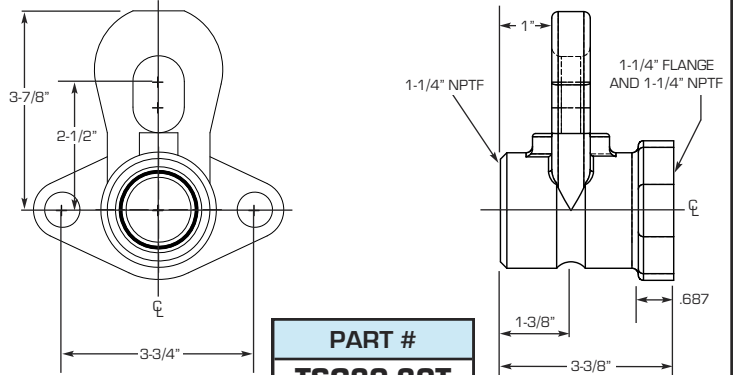
TRAINLINE SUPPORT CASTINGS 1-1/4" NPTF AND 1-1/4" FLANGE

TRAINLINE SUPPORT CASTING FOR RIGID MOUNTING



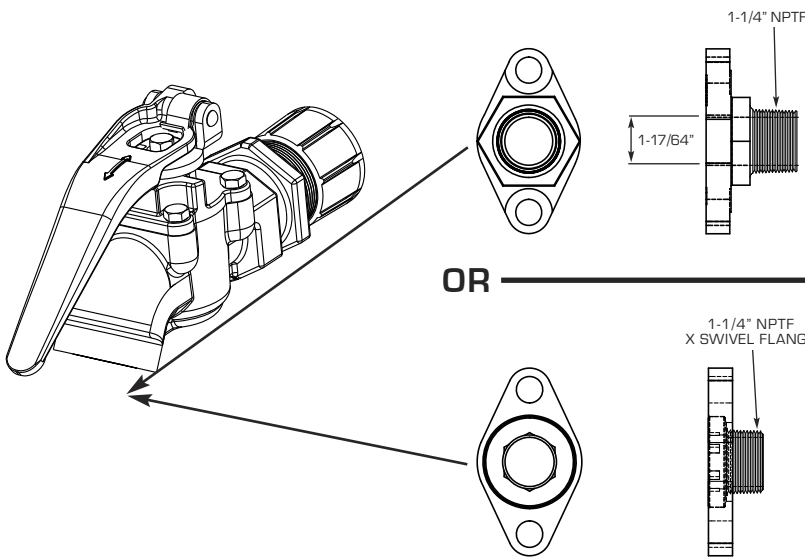
PART #
TSC20-20MT

TRAINLINE SUPPORT CASTING WITH EYELET FOR RIGID OR SWIVEL MOUNTING



PART #
TSC20-20T

THREADED ANGLE COCK ADAPTERS FOR CONNECTING A FLANGED HOSE ASSEMBLY TO A THREADED ANGLE COCK



1-1/4" RIGID FLANGE

FOR CARS WITH NO
CLEARANCE PROBLEMS

PART #
ACF20-20

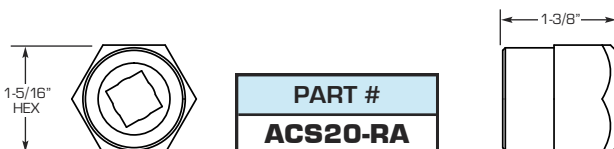
1-1/4" SWIVEL FLANGE

FOR CARS WITH MINIMAL CLEARANCE
ACS20 REQUIRES A STANDARD 1/2" RATCHET
FOR INSTALLATION. SEE BELOW

PART #
ACS20

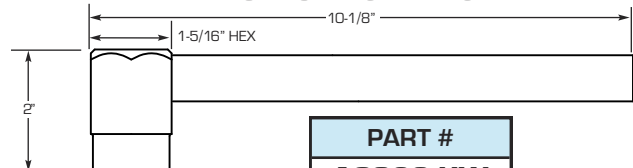
TOOLS FOR INSTALLING THREADED ANGLE COCK ADAPTERS

RATCHET ADAPTER FOR INSTALLING ACS20
FOR USE WITH A 1/2" SQUARE RATCHET



PART #
ACS20-RA

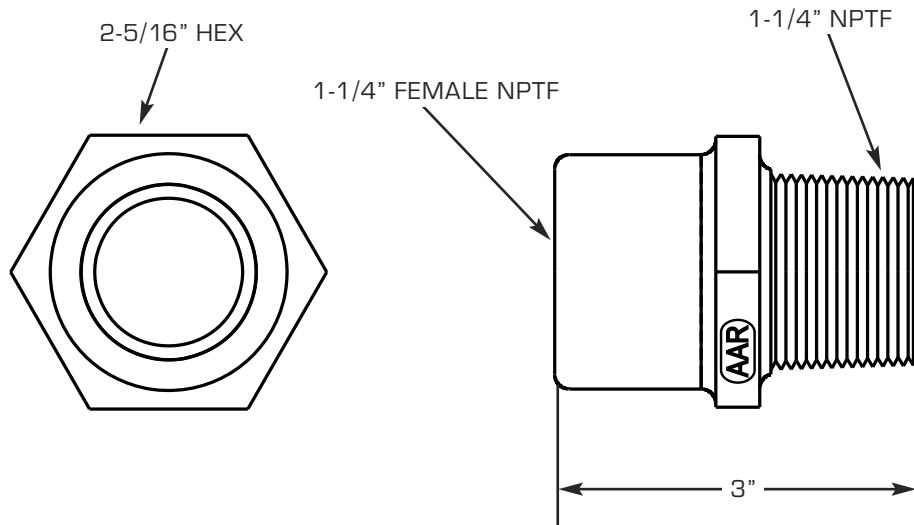
HEX WRENCH FOR INSTALLING ACS20



PART #
ACS20-HW

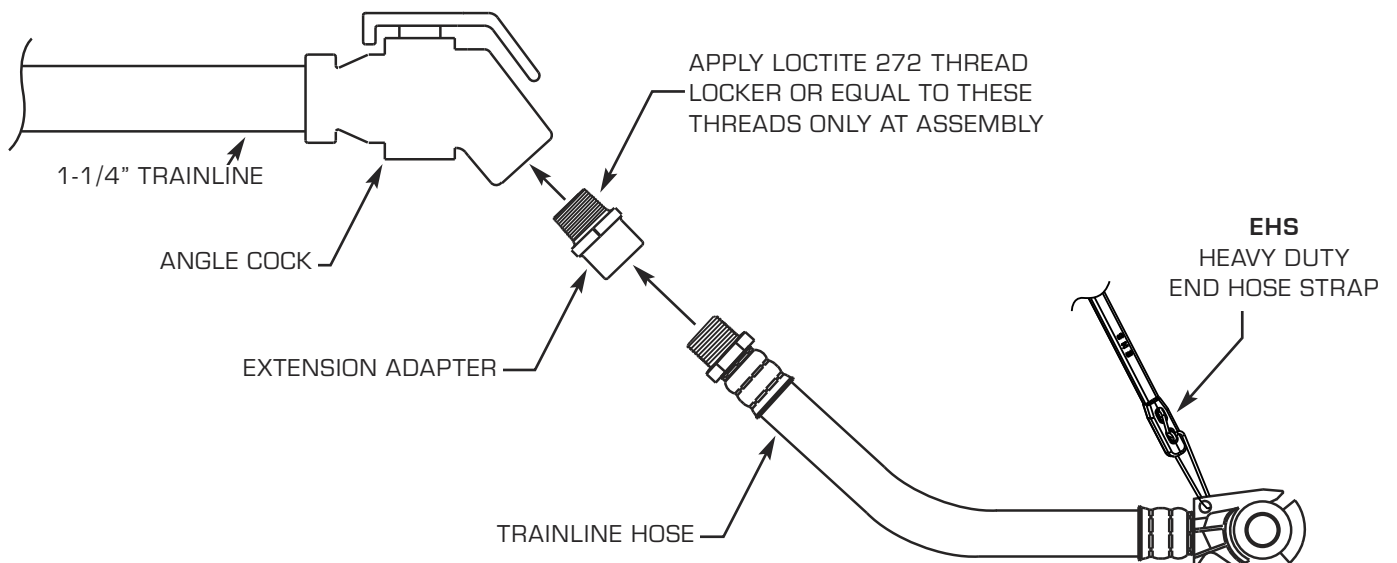
TRAINLINE EXTENSION FITTING

AAR STANDARD S-4013



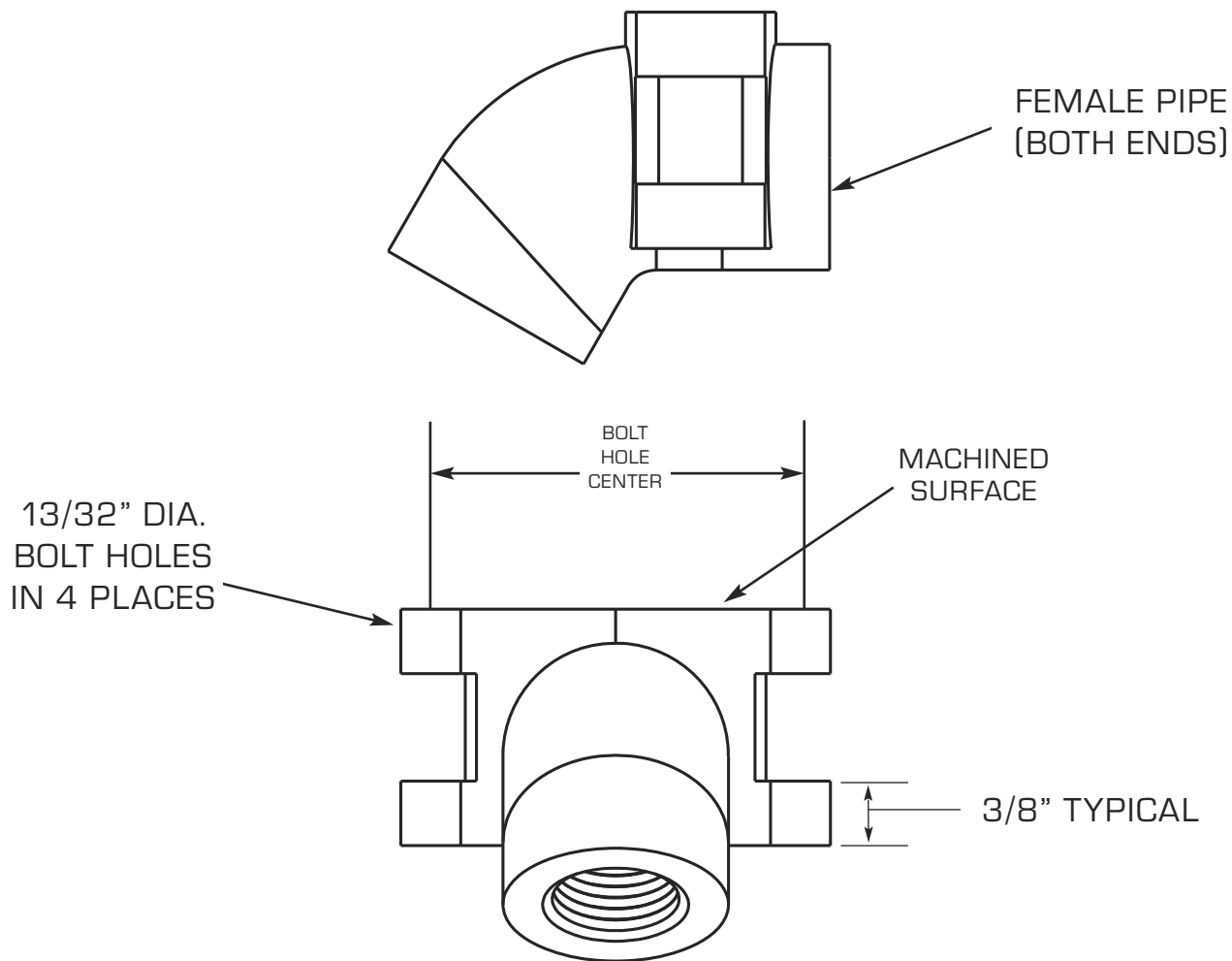
| PART # |
|------------|
| TEC20-20LW |

TYPICAL INSTALLATION



60° LOCOMOTIVE ELBOW CASTINGS

FOR CONNECTING LOCOMOTIVE HOSE ASSEMBLIES INCLUDING MAIN
TRAINLINE, RESERVOIR, ACTUATING, APPLICATION RELEASE, SANDING

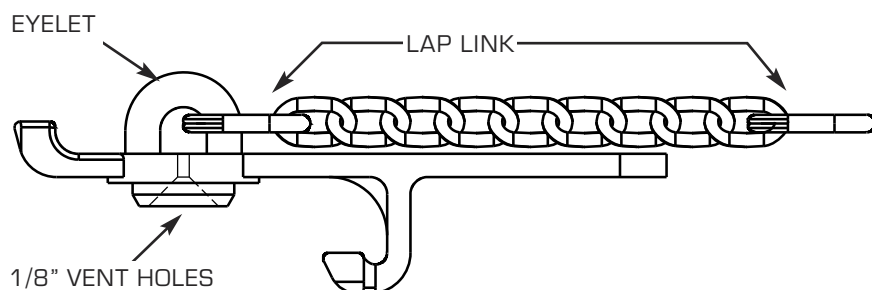


MATERIAL: MALLEABLE IRON ASTM A47-GR32510

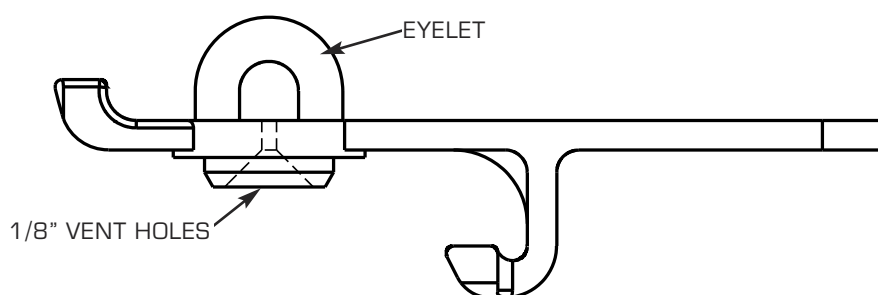
| PART # | NPTF BOTH ENDS |
|----------------|----------------|
| LM60-8 | 1/2" |
| LM60-12 | 3/4" |
| LM60-16 | 1" |
| LM60-20 | 1-1/4" |

“F” TYPE DUMMY COUPLINGS WITH VENT HOLES

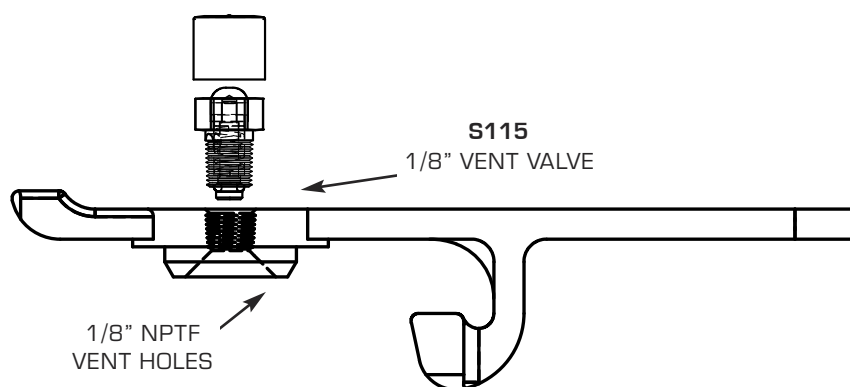
WITH AND WITHOUT TWIST LINK CHAIN ASSEMBLIES



| PART # | COMPLETE CHAIN ASSY. +/- 1/2" |
|---------------|-------------------------------|
| FDC110 | 7-1/2" |
| FDC120 | 9" |
| FDC170 | 11" |
| FDC180 | 16" |
| FDC160 | 18" |



| PART # |
|---------------|
| FDC100 |

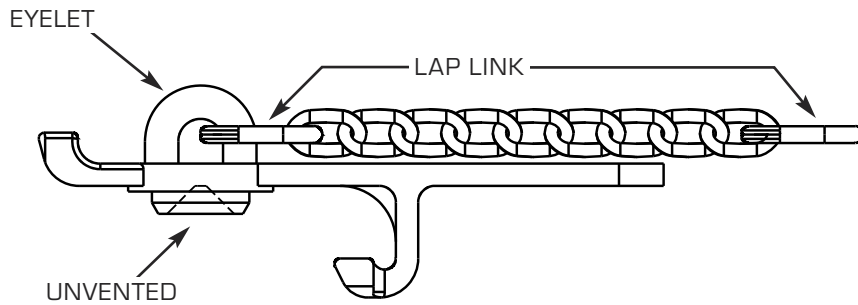


| PART # |
|---------------|
| FDC313 |

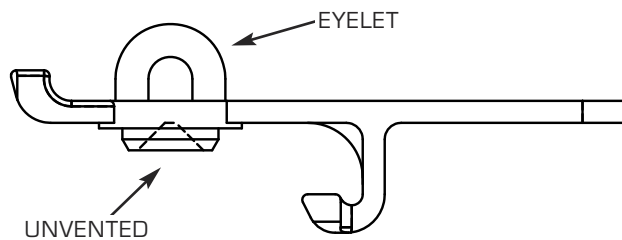
WARNING: IF A DUMMY COUPLING WITHOUT A VENT HOLE IS USED, AIR PRESSURE MAY BUILD UP WITHIN THE HOSE ASSEMBLY AND CREATE A SAFETY HAZARD WHEN DISCONNECTED

“F” TYPE DUMMY COUPLINGS WITHOUT VENT HOLES

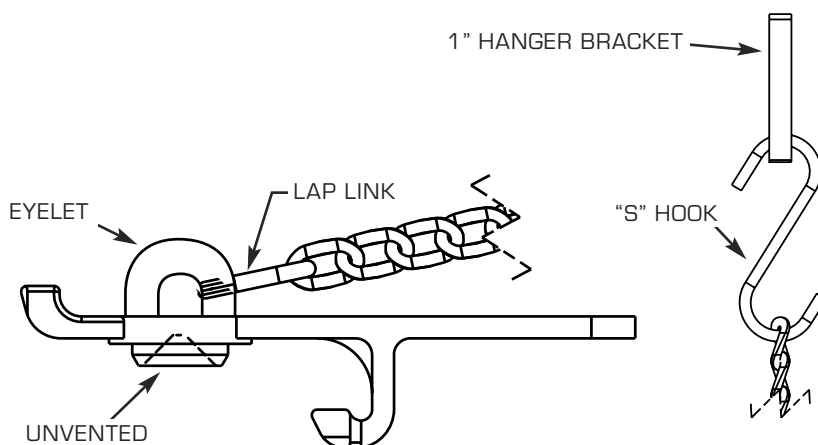
WITH AND WITHOUT TWIST LINK CHAIN ASSEMBLIES



| PART # | COMPLETE CHAIN ASSY. +/- 1/2" |
|---------------|-------------------------------|
| FDC310 | 7-1/2" |
| FDC312 | 10" |



| PART # |
|---------------|
| FDC300 |

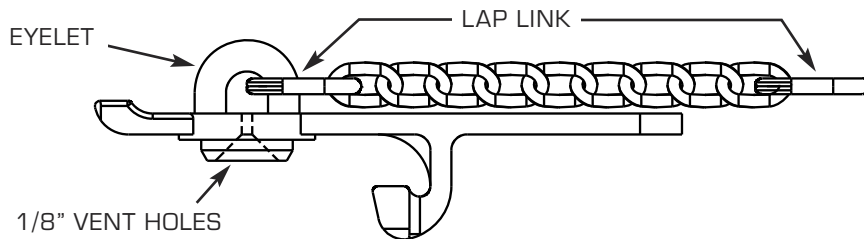


| PART # | COMPLETE CHAIN ASSY. +/- 1/2" |
|------------------|-------------------------------|
| FDC300-18 | 25" |

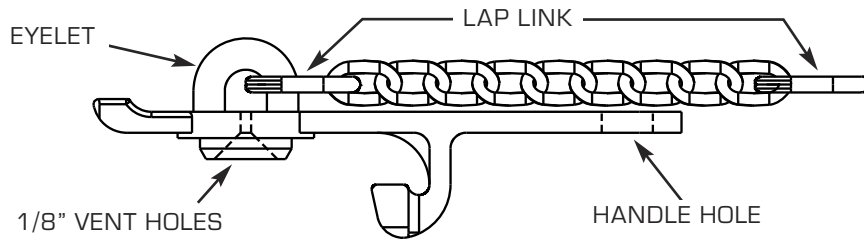
WARNING: IF A DUMMY COUPLING WITHOUT A VENT HOLE IS USED, AIR PRESSURE MAY BUILD UP WITHIN THE HOSE ASSEMBLY AND CREATE A SAFETY HAZARD WHEN DISCONNECTED

“H” TYPE DUMMY COUPLINGS WITH VENT HOLES

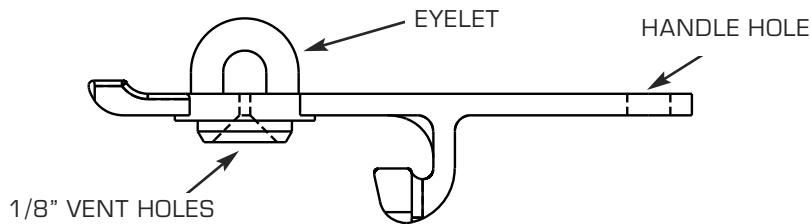
WITH AND WITHOUT TWIST LINK CHAIN ASSEMBLIES



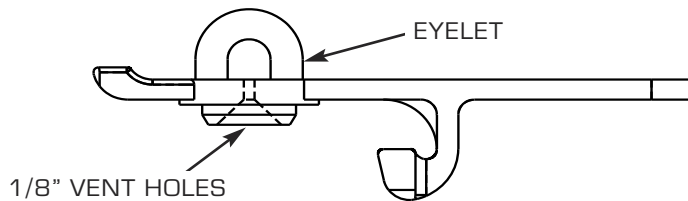
| PART # | COMPLETE CHAIN ASSY. +/- 1/2" |
|---------------|-------------------------------|
| HDC110 | 7-1/2" |
| HDC150 | 14" |
| HDC180 | 16" |



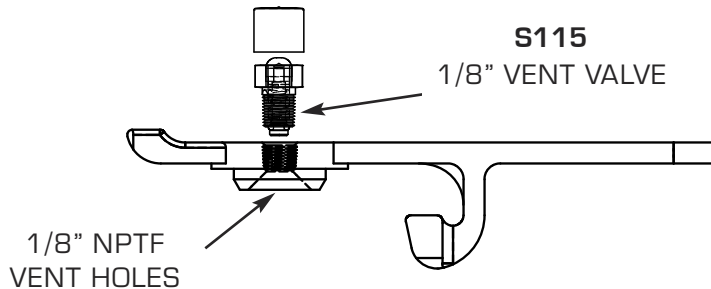
| PART # | COMPLETE CHAIN ASSY. +/- 1/2" |
|---------------|-------------------------------|
| HDC430 | 7-1/2" |



| PART # |
|---------------|
| HDC420 |



| PART # |
|---------------|
| HDC100 |

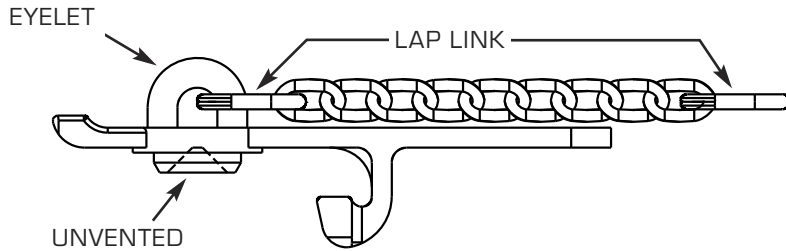


| PART # |
|---------------|
| HDC313 |

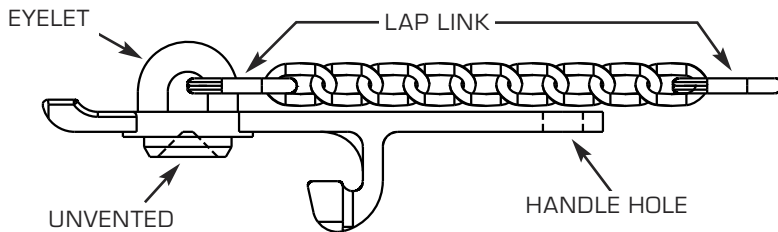
WARNING: IF A DUMMY COUPLING WITHOUT A VENT HOLE IS USED, AIR PRESSURE MAY BUILD UP WITHIN THE HOSE ASSEMBLY AND CREATE A SAFETY HAZARD WHEN DISCONNECTED

“H” TYPE DUMMY COUPLINGS WITHOUT VENT HOLES

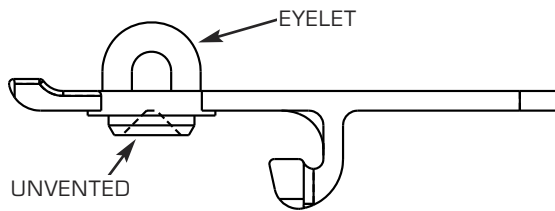
WITH AND WITHOUT TWIST LINK CHAIN ASSEMBLIES



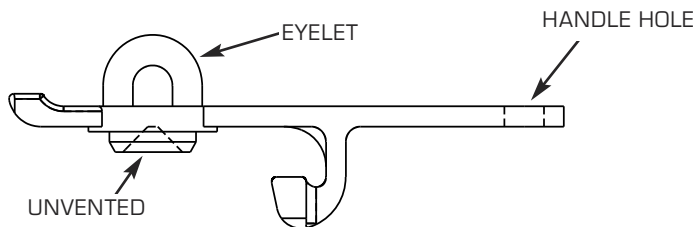
| PART # | COMPLETE CHAIN ASSY. +/- 1/2" |
|---------------|-------------------------------|
| HDC310 | 7-1/2" |
| HDC460 | 18" |



| PART # | COMPLETE CHAIN ASSY. +/- 1/2" |
|---------------|-------------------------------|
| HDC410 | 7-1/2" |



| PART # |
|---------------|
| HDC300 |



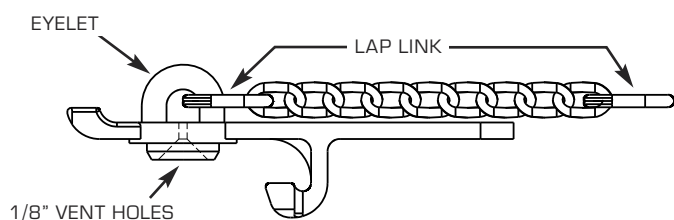
| PART # |
|---------------|
| HDC400 |

WARNING: IF A DUMMY COUPLING WITHOUT A VENT HOLE IS USED, AIR PRESSURE MAY BUILD UP WITHIN THE HOSE ASSEMBLY AND CREATE A SAFETY HAZARD WHEN DISCONNECTED

"L" & "E" TYPE DUMMY COUPLINGS

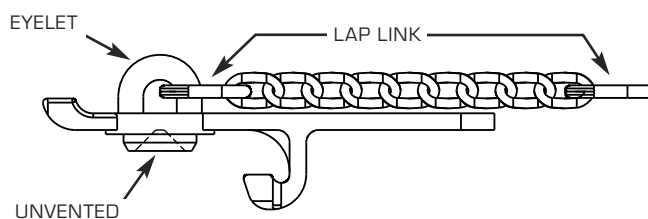
AVAILABLE WITH OR WITHOUT VENT HOLES AND
WITH OR WITHOUT TWIST LINK CHAIN ASSEMBLIES

WITH VENT HOLES

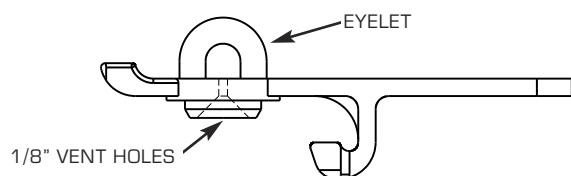


| PART # | VENTED | COMPLETE CHAIN ASSY. +/- 1/2" |
|---------------|--------|-------------------------------|
| LDC110 | YES | 7-1/2" |
| LDC130 | YES | 6" |
| LDC180 | YES | 16" |

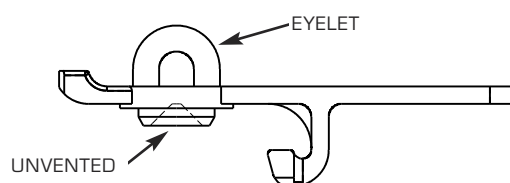
WITHOUT VENT HOLES



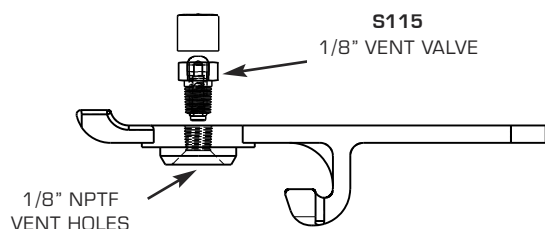
| PART # | COMPLETE CHAIN ASSY. +/- 1/2" |
|---------------|-------------------------------|
| LDC310 | 7-1/2" |



| PART # |
|---------------|
| LDC100 |



| PART # |
|---------------|
| LDC300 |



| PART # |
|---------------|
| LDC313 |



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WARNING: IF A DUMMY COUPLING WITHOUT A VENT HOLE IS USED, AIR PRESSURE MAY BUILD UP WITHIN THE HOSE ASSEMBLY AND CREATE A SAFETY HAZARD WHEN DISCONNECTED



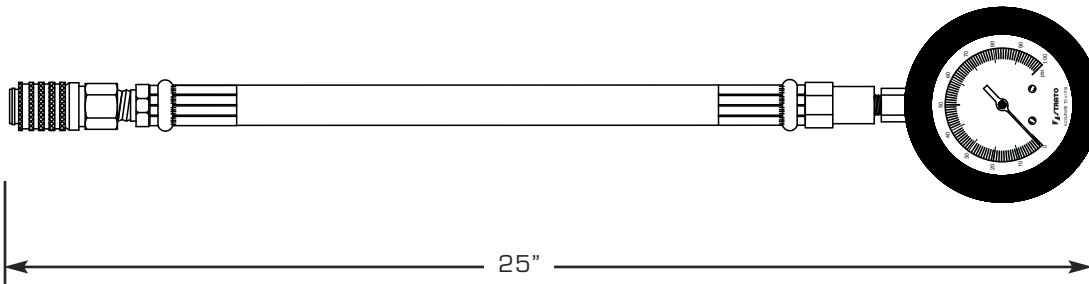
100 New England Avenue • Piscataway, NJ 08854

TEST PRODUCTS



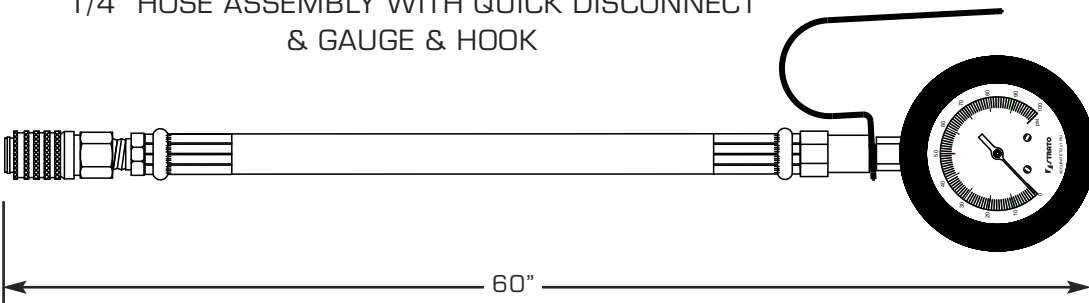
HOSE ASSEMBLIES WITH AND WITHOUT GAUGE FOR TESTING BRAKE CYLINDER PRESSURE

1/4" HOSE ASSEMBLY WITH QUICK DISCONNECT & GAUGE



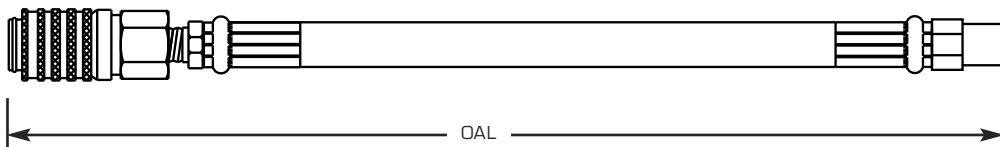
| PART # |
|-----------------|
| PTHA3001 |

1/4" HOSE ASSEMBLY WITH QUICK DISCONNECT
& GAUGE & HOOK



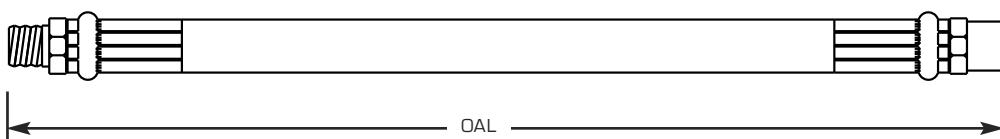
| PART # |
|-----------------|
| PTHA3005 |

1/4" SAE 100R1 Hose with Rigid Male x Rigid Female Crimped Fittings & Quick Disconnect



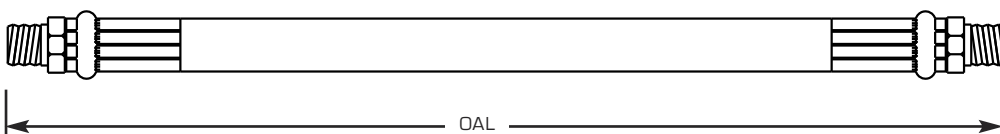
| PART # | O.A.L |
|-----------------|-------|
| PTHA1001 | 21" |
| PTHA1003 | 72" |

1/4" SAE 100R1 Hose with Rigid Male x Rigid Female Crimped Fittings



| PART # | O.A.L |
|----------------|-------|
| PTHA001 | 19" |
| PTHA009 | 54" |
| PTHA015 | 70" |

1/4" SAE 100R1 Hose with Rigid Male x Rigid Male Crimped Fittings



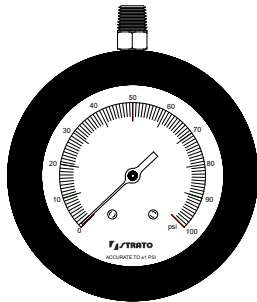
| PART # | O.A.L |
|----------------|-------|
| PTHA003 | 25" |

Hose Assembly for Permanent
Attachment to Freight Car

ACCESSORIES

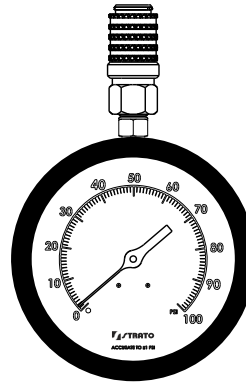
FOR TESTING BRAKE CYLINDER PRESSURE

4" Top Mount Pressure Gauge with
Protective Rubber Cover
(Meets All AAR Requirements)



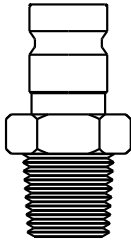
PART #
S297T

Pressure Gauge with Female
Quick Disconnect



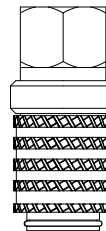
PART #
S298

Male Quick Disconnect 1/4" NPTF



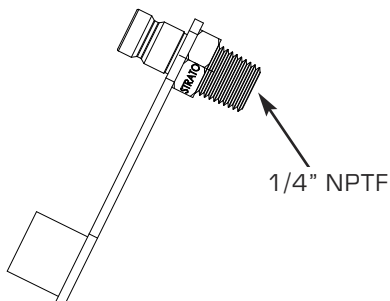
PART #
QD4

Female Quick Disconnect 1/4" NPTF



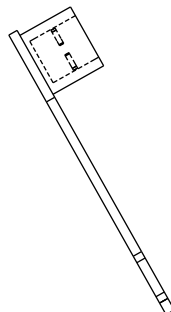
PART #
QD4F

1/4" Quick Disconnect w/Cap



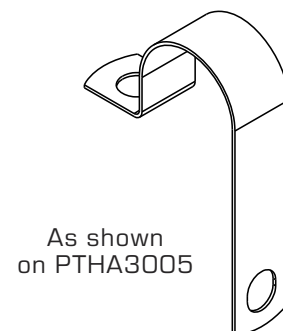
PART #
QD4-100

Molded Rubber Protective
Valve Cover



PART #
C100

Hook



PART #
CL-25ST

BRAKEMAN'S TEST GAUGE

FOR CHECKING AIR PRESSURE AT THE END OF THE TRAIN
OR ANY OTHER POINT IN BETWEEN

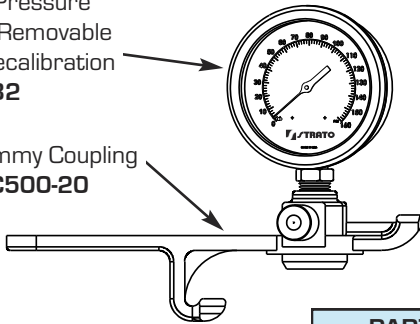
INCLUDES: COUPLING, GAUGE & VENT VALVE
ASSEMBLED & PRESSURE TESTED FOR LEAKS AND GAUGE ACCURACY

Top Mount

Complete Assembly (without Boot)

2-1/2" Dia. Pressure
Gauge with Removable
Cover for Recalibration
Part# - S182

"F" Type Dummy Coupling
Part# - FDC500-20

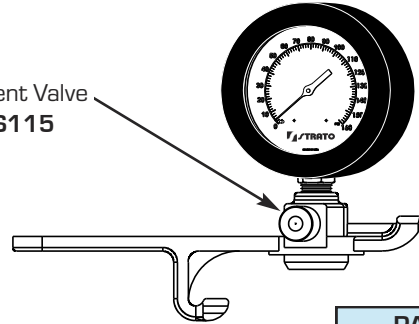


PART #
FDC500-90

Top Mount

Complete Assembly (with Boot)

Safety Vent Valve
Part# - S115

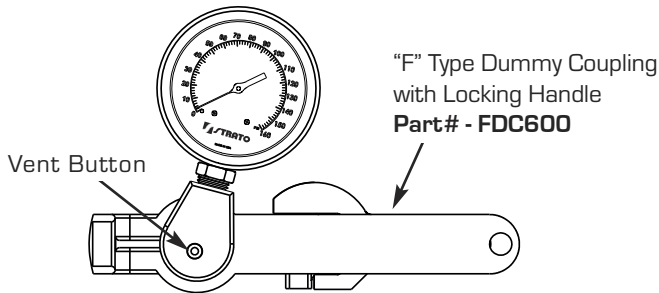


PART #
FDC500-90B

Side Mount

With Locking Handle

Complete Assembly (without Boot)

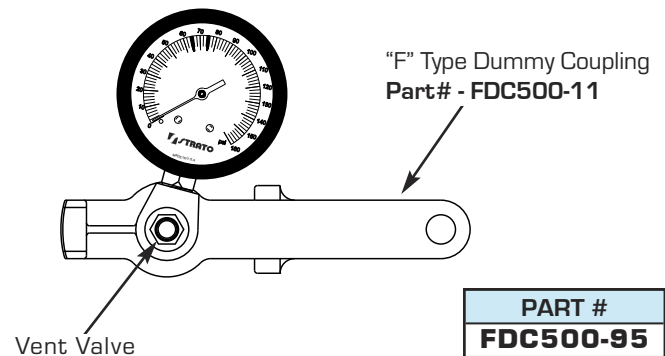


Coupling Patent No. US5251666

PART #
FDC600-90

Side Mount

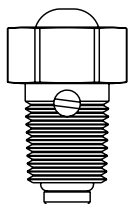
Complete Assembly (with Boot)



PART #
FDC500-95

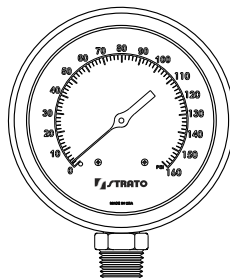
ACCESSORIES

1/8" Vent Valve



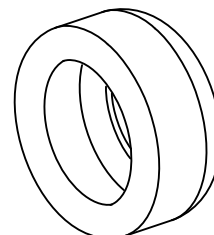
PART #
S115

Pressure Gauge



PART #
S182

Rubber Gauge Boot



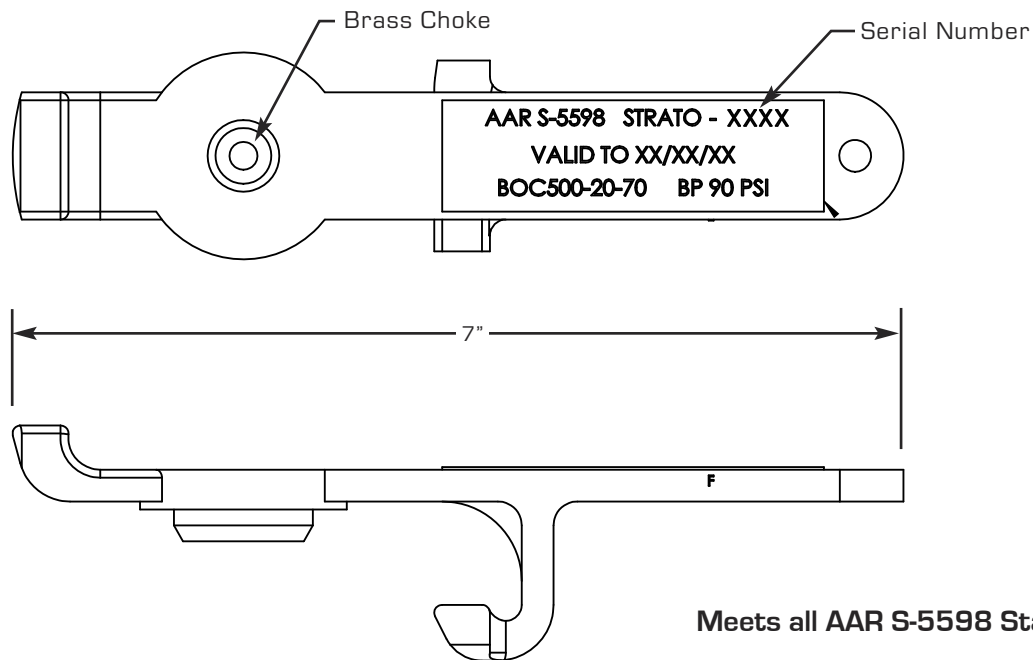
PART #
S183



CALIBRATING DEVICE FOR AFM-TYPE AIR FLOW INDICATORS ON LOCOMOTIVES

MEETS AAR S-5598 STANDARDS FOR DESIGN, MATERIAL, AND MARKING

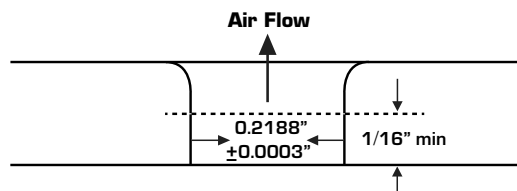
THIS DEVICE IS USED IN THE PROCEDURE OF CALIBRATING THE AIR FLOW METHOD (AFM) TYPE AIR FLOW INDICATORS INSTALLED ON LOCOMOTIVES AS SPECIFIED BY AAR STANDARD S-5598.



| PART # | BRAKEPIPE PRESSURE | ORIFICE SIZE |
|---------------------|--------------------|---------------|
| BOC500-20-70 | 90 PSI | .2188" |

Design

- Provides 60 scfm (standard cubic feet per minute) = ± 1 scfm at a brake pipe measure of 90 psi and a temperature of 70° F.
- Has an orifice diameter of 0.2188 in. ± 0.0003 in. and a minimum throat length of 1/16 in. The inlet side of the orifice is square, i.e. no chamfer.
- Orifice connects to an F-type glad hand.
- The calibration choke is manufactured to produce a flow of 59 to 61 scfm at 90 psig.



Material

- Orifice is made of non-corrosive material, body protected with corrosive inhibiting treatment.

Marking

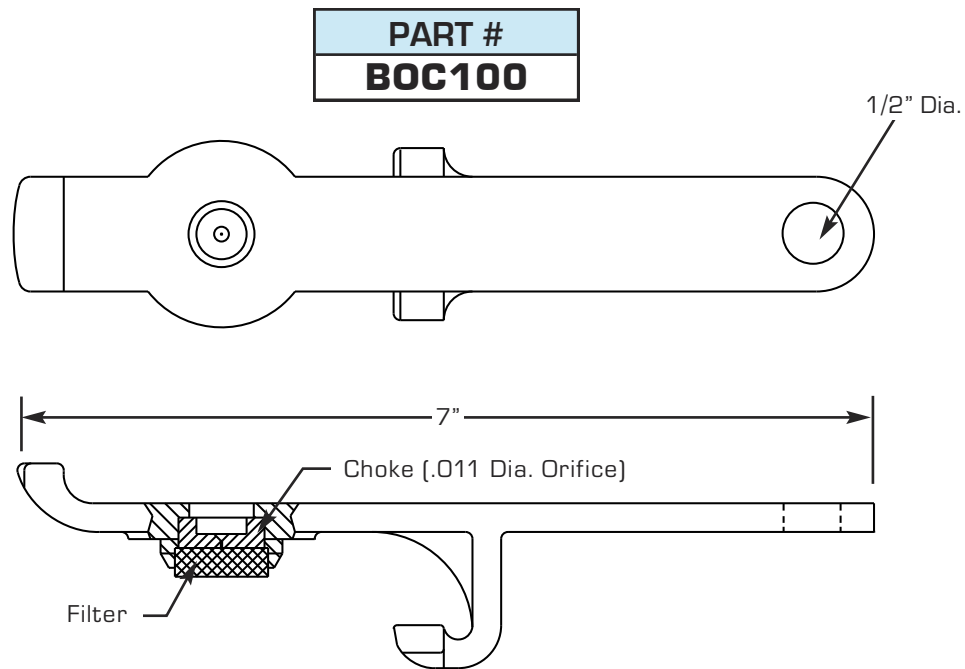
- Clearly marked with A.A.R. S-5598 and re-calibration due date.



TEST COUPLING

FOR DAILY CERTIFICATION OF SINGLE CAR TEST DEVICE

STRATO'S TEST COUPLING, BOC100, WITH .28mm (.011in) CHOKE, IS COUPLED TO THE BRAKE PIPE DURING THE DAILY TEST PROCEDURES PER AAR S-486, PARAGRAPH 2.3.6

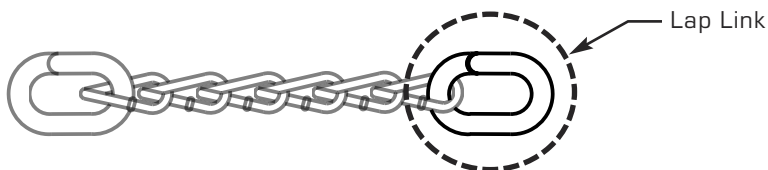


The Single Car Test Device is used to make a general check on the condition of the brake equipment on cars per the Field Manual of the AAR Interchange Rules and the device itself must be tested for air leakage at least once each day of use.

If a chain assembly is required, call our Customer Service Department at **1-800-792-0500** for price, part number and delivery.

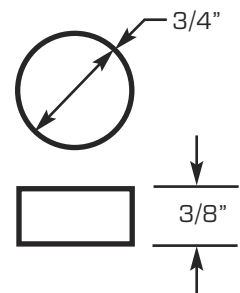
ACCESSORIES

Twist Link Chain

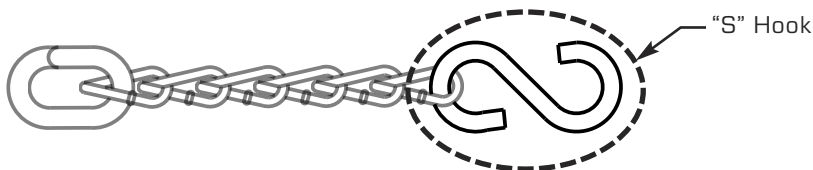


PART #
H36

Replacement Filter



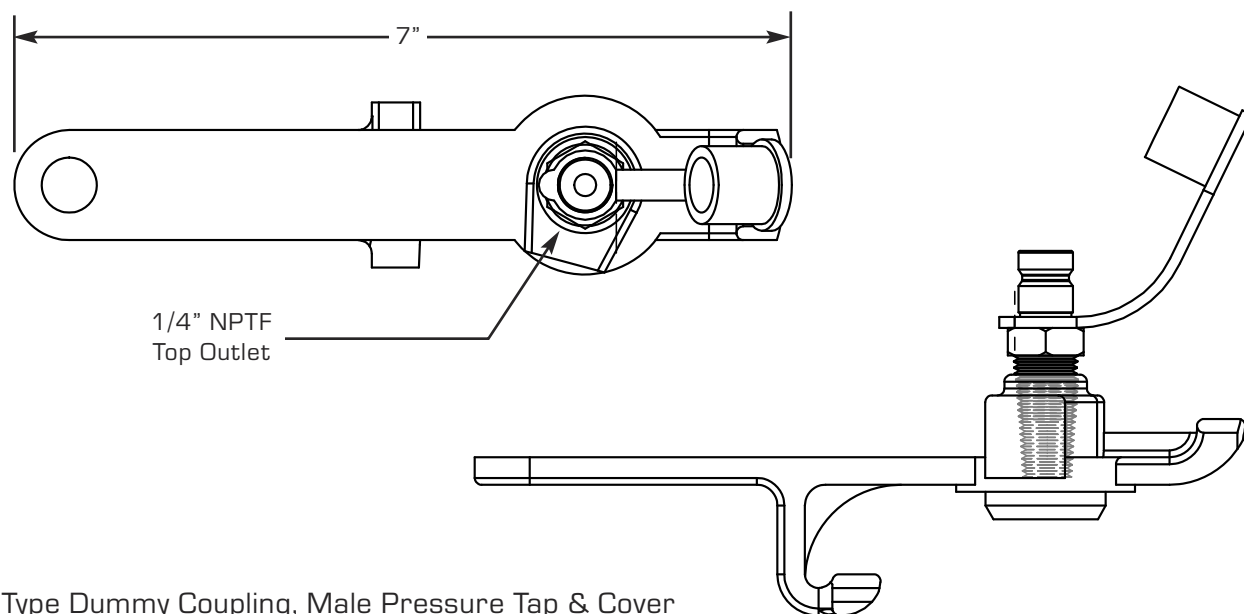
PART #
HDF12



PART #
S151A

SOLUTIONS FOR AAR STANDARD S-486, SECTION 2.3

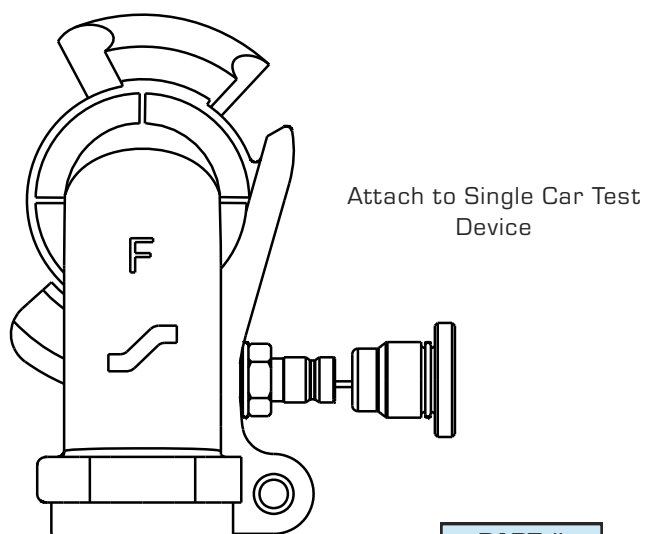
SINGLE CAR TEST COUPLING FOR DAILY INSPECTION OF THE TEST GAUGE



"F" Type Dummy Coupling, Male Pressure Tap & Cover for Inspecting the Pressure Gauge (i.e. **S298**). Attach to Gladhand on Single Car Test Devices.

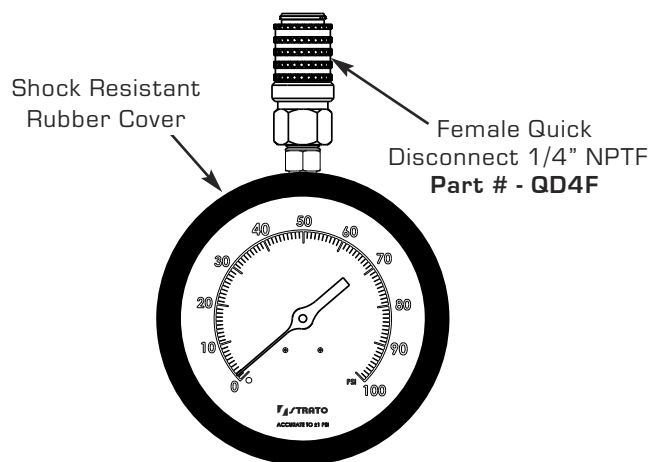
| |
|------------------|
| PART # |
| FDC500-50 |

Gladhand with Male Pressure Tap & Heavy Duty Cover



| |
|-----------------|
| PART # |
| FS300E-3 |

4" Top Mount Heavy Duty Pressure Gauge Assembly
(Meets All AAR Requirements)

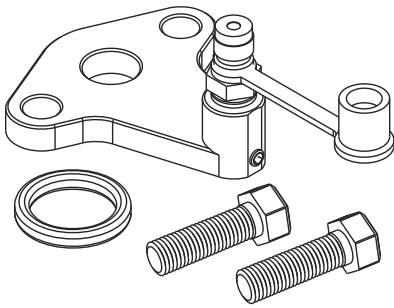


Gauge Only - Part # - **S297T**
(Without Quick Disconnect)

| |
|---------------|
| PART # |
| S298 |

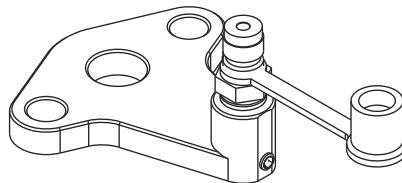
WAFER FLANGE FITTINGS FOR TESTING BRAKE CYLINDER PRESSURE MEETS REQUIREMENTS FOR AAR S-4020 & S-486

3/4" 90° Wafer Flange Fittings



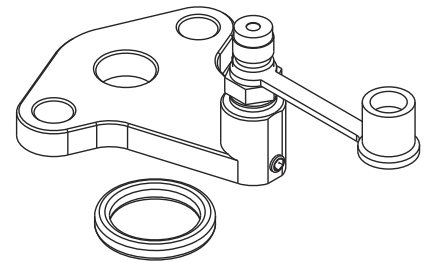
Complete kit
as shown

PART #
WFA



as shown

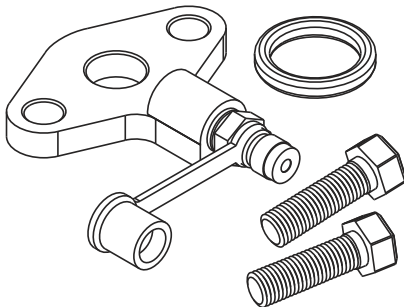
PART #
WFA-1



as shown

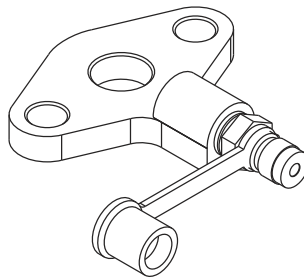
PART #
WFA-2

3/4" Straight Wafer Flange Fittings



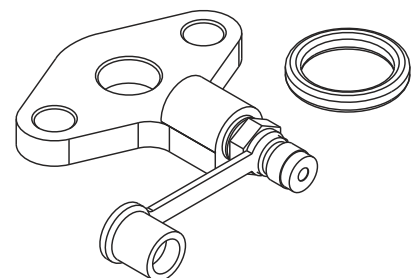
Complete kit
as shown

PART #
WFC



as shown

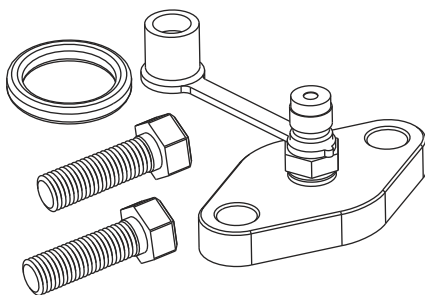
PART #
WFC-1



as shown

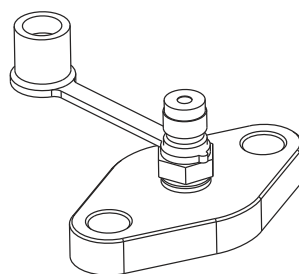
PART #
WFC-2

3/4" Blanking Wafer Flange Fittings



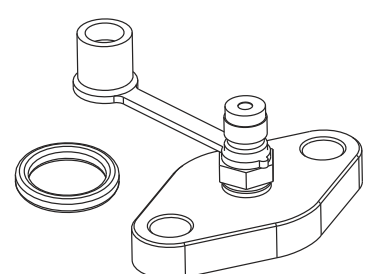
Complete kit
as shown

PART #
WFB



as shown

PART #
WFB-1

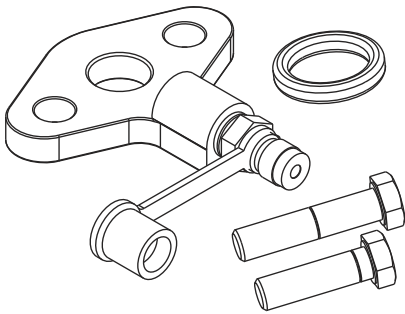


as shown

PART #
WFB-2

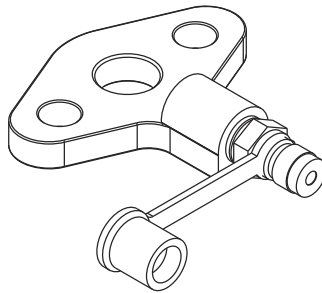
MORE SOLUTIONS FOR BRAKE CYLINDER PRESSURE TESTING MEETS REQUIREMENTS FOR AAR S-4020

1/2" WAFER FLANGES FOR USE ONLY BETWEEN BRAKE CYLINDER HOSE AND BRAKE CYLINDER



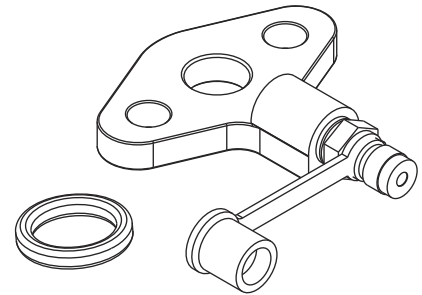
Complete kit
as shown

PART #
WFD



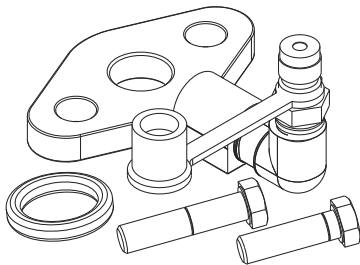
as shown

PART #
WFD-1



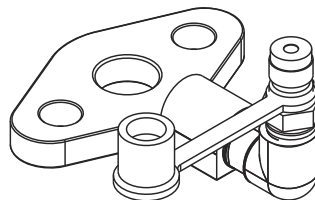
as shown

PART #
WFD-2



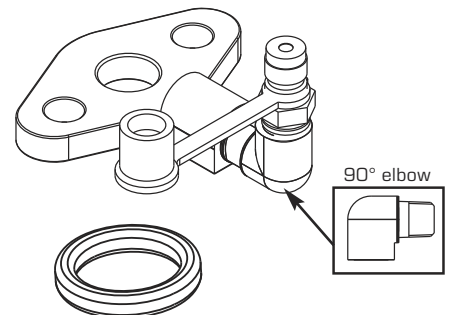
Complete kit
as shown

PART #
WFE



as shown

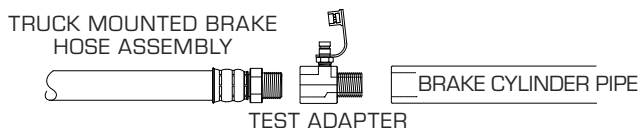
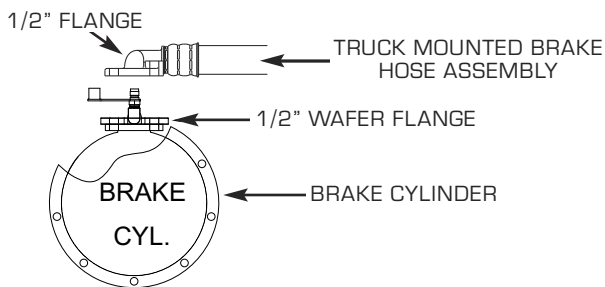
PART #
WFE-1



as shown

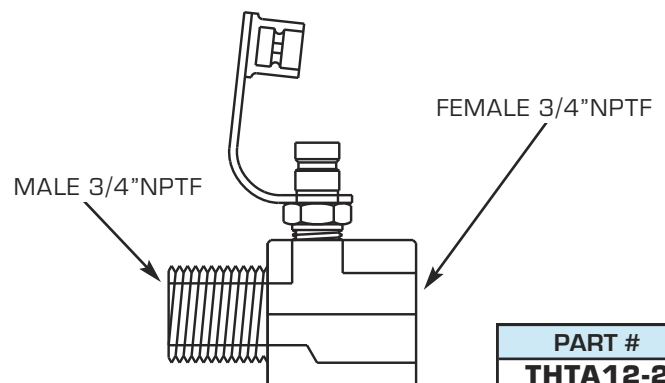
PART #
WFE-2

TYPICAL APPLICATION



CONNECT TEST PORT ADAPTER TO 3/4" MALE NPTF BRAKE CYLINDER HOSE

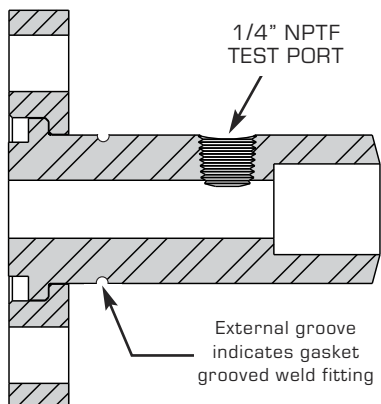
3/4" HEX TEST ADAPTER W/ QD4 AND COVER



PART #
THTA12-2

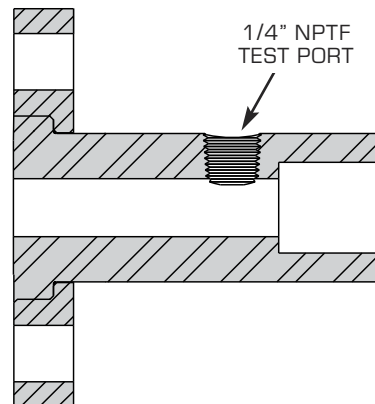
STRAIGHT SOCKET WELD ASSEMBLIES WITH TEST PORT FOR TESTING BRAKE CYLINDER PRESSURE

STANDARD - WITH GROOVE



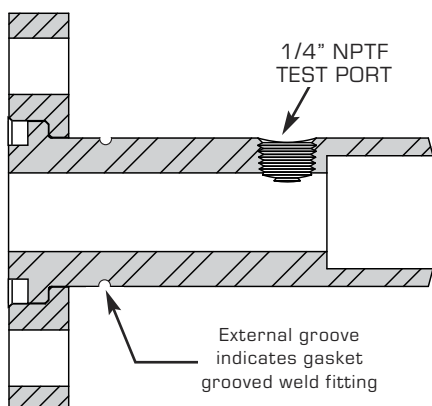
| PART # | FLANGE SIZE | PIPE SIZE |
|----------------|-------------|-----------|
| SBT12 | 3/4" | 3/4" |
| SBT12-8 | 3/4" | 1/2" |

STANDARD - WITHOUT GROOVE



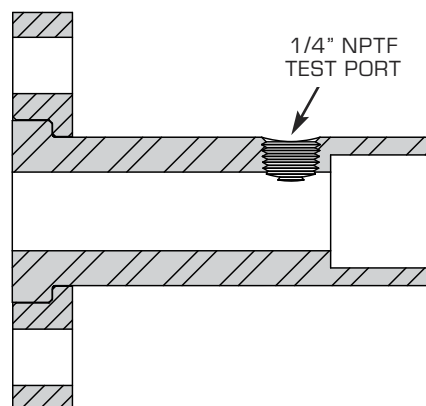
| PART # | FLANGE SIZE | PIPE SIZE |
|---------------|-------------|-----------|
| SBFT12 | 3/4" | 3/4" |

LONG - WITH GROOVE



| PART # | FLANGE SIZE | PIPE SIZE |
|---------------|-------------|-----------|
| SBT12L | 3/4" | 3/4" |

LONG - WITHOUT GROOVE



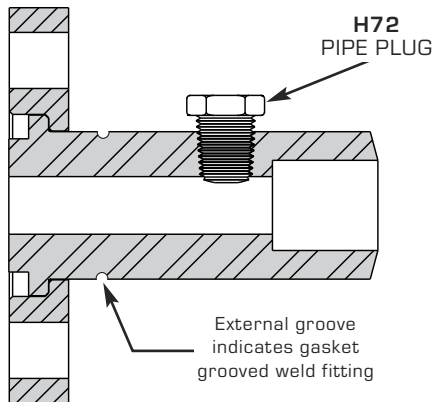
| PART # | FLANGE SIZE | PIPE SIZE |
|----------------|-------------|-----------|
| SBFT12L | 3/4" | 3/4" |

WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

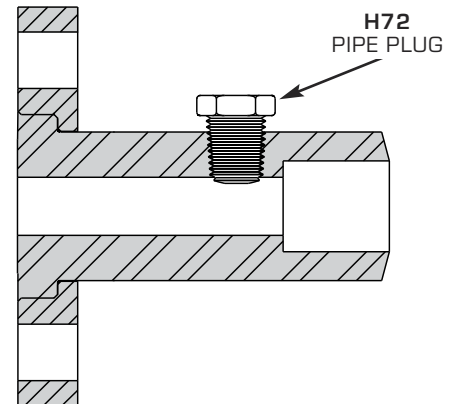
STRAIGHT SOCKET WELD ASSEMBLIES WITH TEST PORT FOR TESTING BRAKE CYLINDER PRESSURE

STANDARD - WITH GROOVE



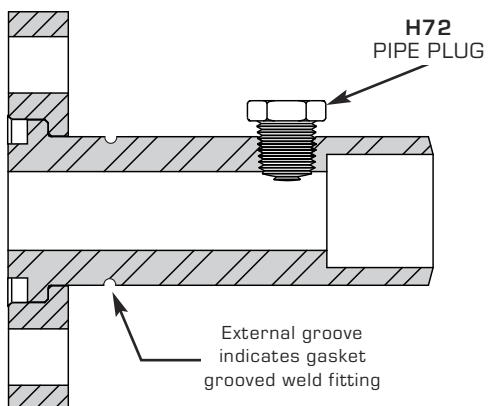
| PART # | FLANGE SIZE | PIPE SIZE |
|------------------|-------------|-----------|
| SBT12-1 | 3/4" | 3/4" |
| SBT12-8-1 | 3/4" | 1/2" |

STANDARD - WITHOUT GROOVE



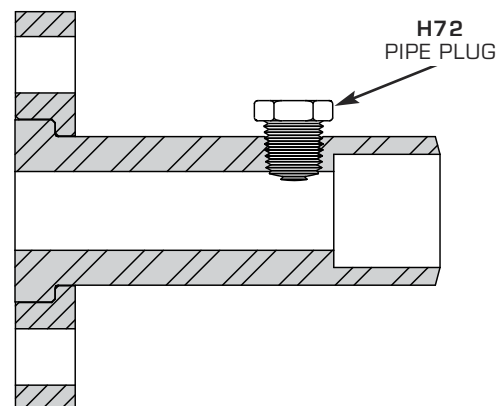
| PART # | FLANGE SIZE | PIPE SIZE |
|-----------------|-------------|-----------|
| SBFT12-1 | 3/4" | 3/4" |

LONG - WITH GROOVE



| PART # | FLANGE SIZE | PIPE SIZE |
|-----------------|-------------|-----------|
| SBT12L-1 | 3/4" | 3/4" |

LONG - WITHOUT GROOVE



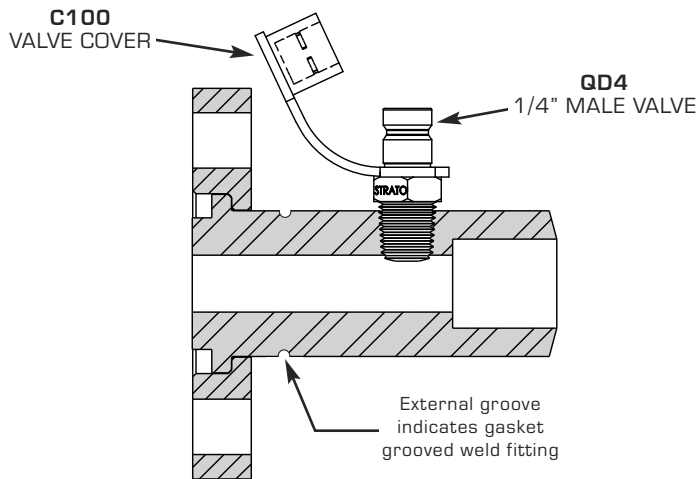
| PART # | FLANGE SIZE | PIPE SIZE |
|------------------|-------------|-----------|
| SBFT12L-1 | 3/4" | 3/4" |

WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

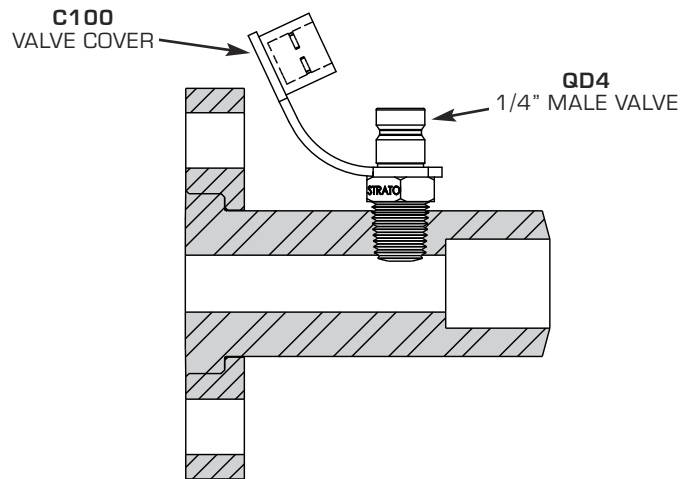
STRAIGHT SOCKET WELD ASSEMBLIES WITH TEST PORT FOR TESTING BRAKE CYLINDER PRESSURE

STANDARD - WITH GROOVE



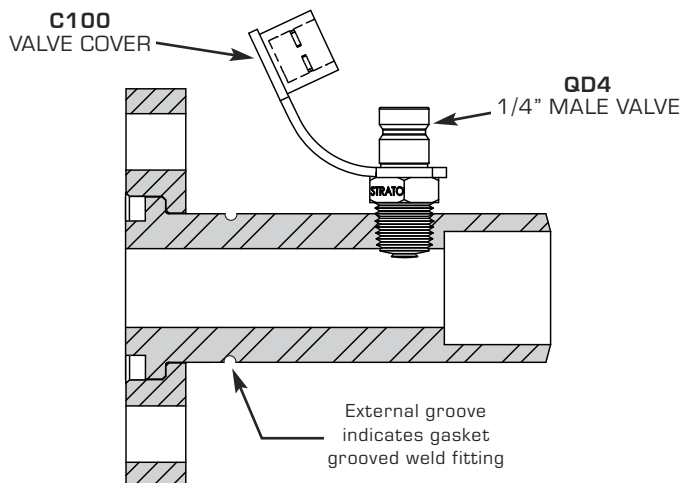
| PART # | FLANGE SIZE | PIPE SIZE |
|------------------|-------------|-----------|
| SBT12-2 | 3/4" | 3/4" |
| SBT12-8-2 | 3/4" | 1/2" |

STANDARD - WITHOUT GROOVE



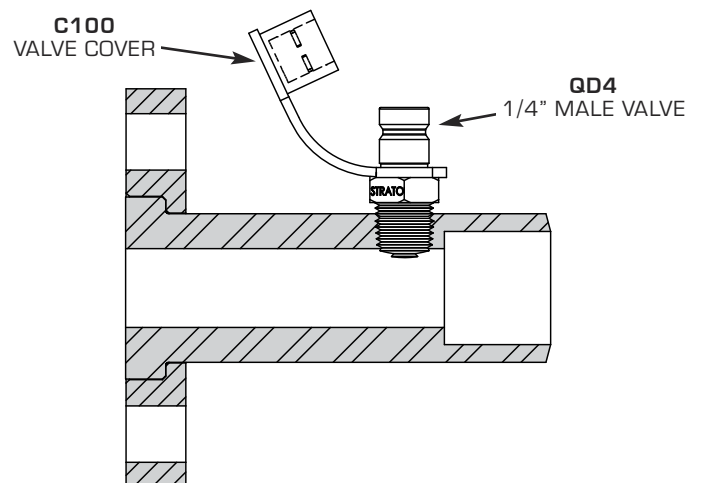
| PART # | FLANGE SIZE | PIPE SIZE |
|-------------------|-------------|-----------|
| SBFT12-2 | 3/4" | 3/4" |
| SBFT12-8-2 | 3/4" | 1/2" |

LONG - WITH GROOVE



| PART # | FLANGE SIZE | PIPE SIZE |
|-----------------|-------------|-----------|
| SBT12L-2 | 3/4" | 3/4" |

LONG - WITHOUT GROOVE



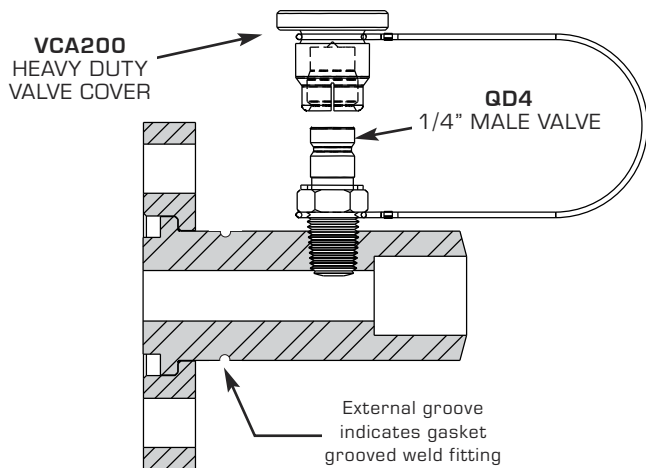
| PART # | FLANGE SIZE | PIPE SIZE |
|------------------|-------------|-----------|
| SBFT12L-2 | 3/4" | 3/4" |

WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

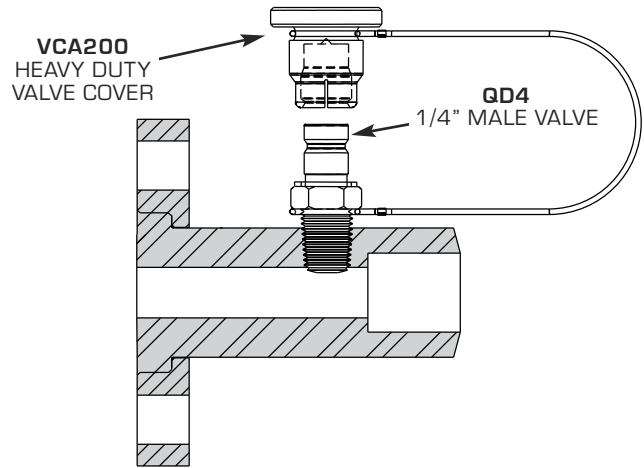
STRAIGHT SOCKET WELD ASSEMBLIES WITH TEST PORT FOR TESTING BRAKE CYLINDER PRESSURE

STANDARD - WITH GROOVE



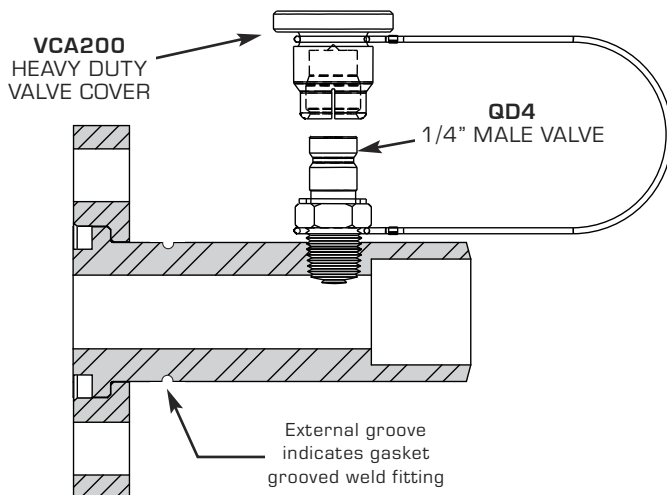
| PART # | FLANGE SIZE | PIPE SIZE |
|----------------|-------------|-------------|
| SBT12-3 | 3/4" | 3/4" |

STANDARD - WITHOUT GROOVE



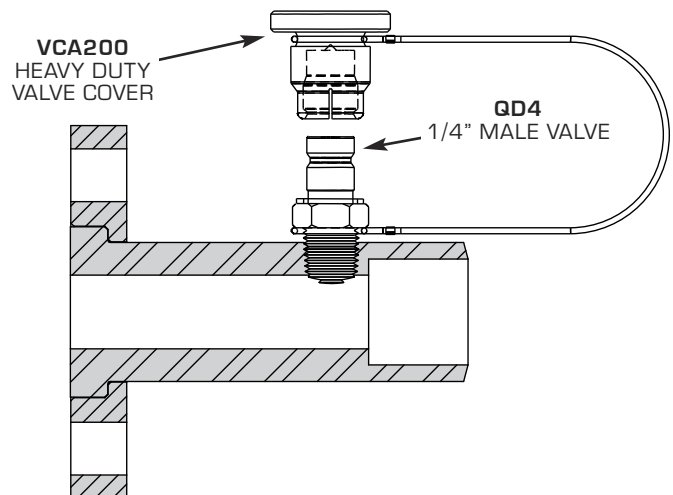
| PART # | FLANGE SIZE | PIPE SIZE |
|-----------------|-------------|-------------|
| SBFT12-3 | 3/4" | 3/4" |

LONG - WITH GROOVE



| PART # | FLANGE SIZE | PIPE SIZE |
|-----------------|-------------|-------------|
| SBT12L-3 | 3/4" | 3/4" |

LONG - WITHOUT GROOVE



| PART # | FLANGE SIZE | PIPE SIZE |
|------------------|-------------|-------------|
| SBFT12L-3 | 3/4" | 3/4" |

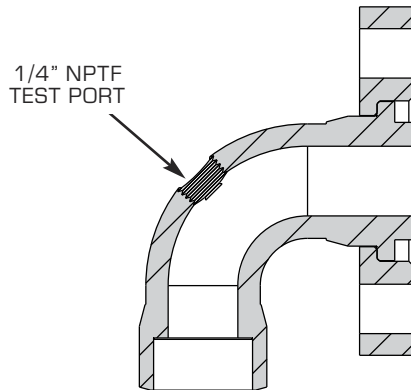
WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

90° SOCKET WELD ASSEMBLIES WITH TEST PORT

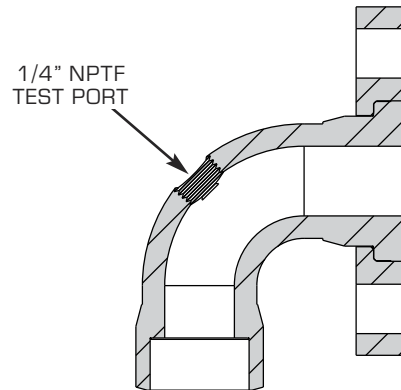
FOR TESTING BRAKE CYLINDER PRESSURE

WITH GROOVE



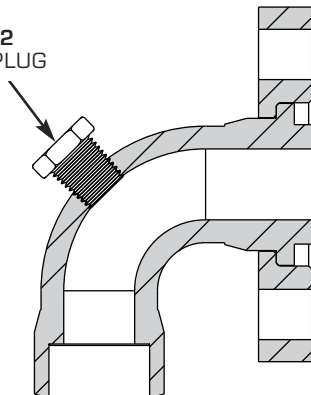
| PART # | FLANGE SIZE | PIPE SIZE |
|-------------------|-------------|-----------|
| SBT90-12 | 3/4" | 3/4" |
| SBT90-12-8 | 3/4" | 1/2" |

WITHOUT GROOVE



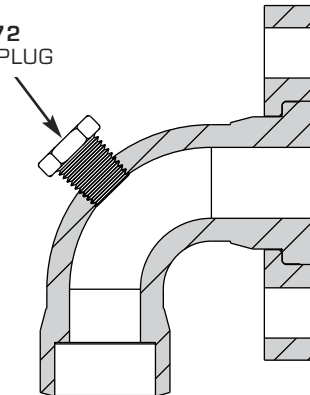
| PART # | FLANGE SIZE | PIPE SIZE |
|--------------------|-------------|-----------|
| SBFT90-12 | 3/4" | 3/4" |
| SBFT90-12-8 | 3/4" | 1/2" |

H72
PIPE PLUG



| PART # | FLANGE SIZE | PIPE SIZE |
|--------------------|-------------|-----------|
| SBT90-12-1 | 3/4" | 3/4" |
| SBT9012-8-1 | 3/4" | 1/2" |

H72
PIPE PLUG



| PART # | FLANGE SIZE | PIPE SIZE |
|---------------------|-------------|-----------|
| SBFT90-12-1 | 3/4" | 3/4" |
| SBFT9012-8-1 | 3/4" | 1/2" |

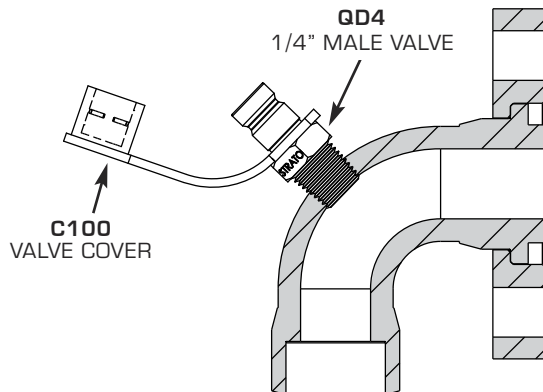
WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

90° SOCKET WELD ASSEMBLIES WITH TEST PORT

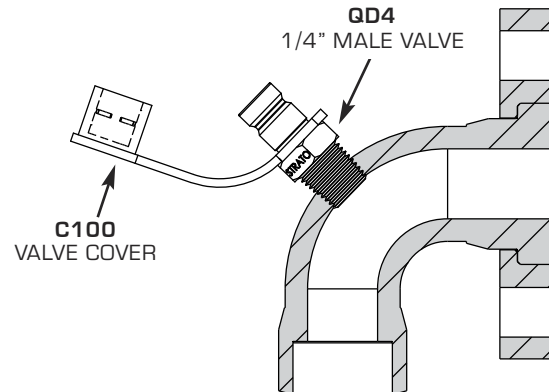
FOR TESTING BRAKE CYLINDER PRESSURE

WITH GROOVE



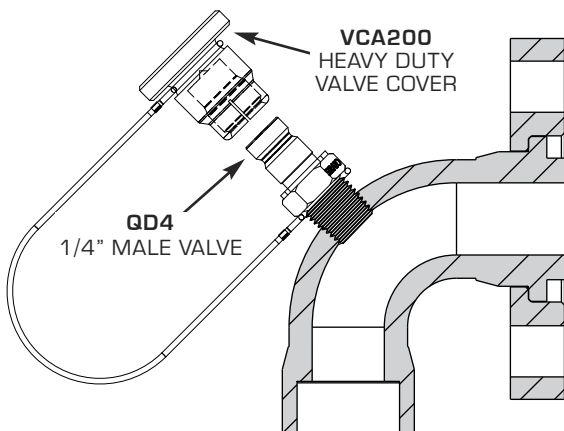
| PART # | FLANGE SIZE | PIPE SIZE |
|--------------------|-------------|-----------|
| SBT90-12-2 | 3/4" | 3/4" |
| SBT9012-8-2 | 3/4" | 1/2" |

WITHOUT GROOVE



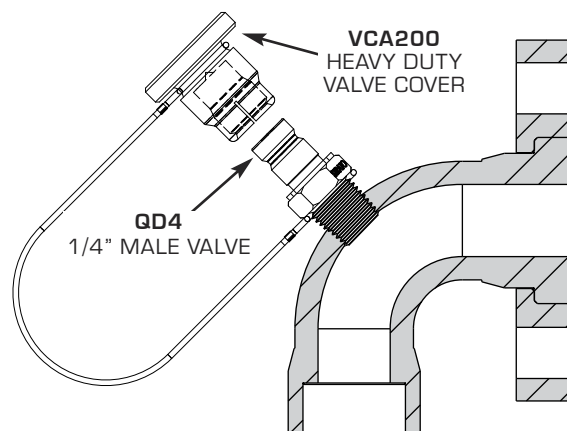
| PART # | FLANGE SIZE | PIPE SIZE |
|---------------------|-------------|-----------|
| SBFT90-12-2 | 3/4" | 3/4" |
| SBFT9012-8-2 | 3/4" | 1/2" |

WITH GROOVE AND HEAVY DUTY VALVE COVER



| PART # | FLANGE SIZE | PIPE SIZE |
|-------------------|-------------|-----------|
| SBT90-12-3 | 3/4" | 3/4" |

WITHOUT GROOVE WITH HEAVY DUTY VALVE COVER



| PART # | FLANGE SIZE | PIPE SIZE |
|--------------------|-------------|-----------|
| SBFT90-12-3 | 3/4" | 3/4" |

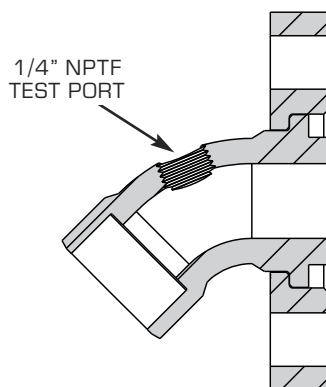
WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

45° SOCKET WELD ASSEMBLIES WITH TEST PORT

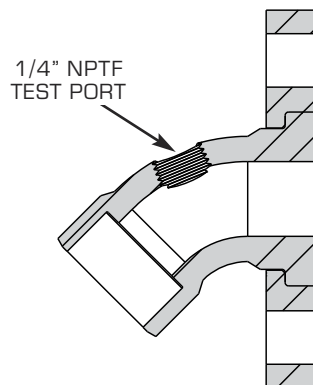
FOR TESTING BRAKE CYLINDER PRESSURE

WITH GROOVE

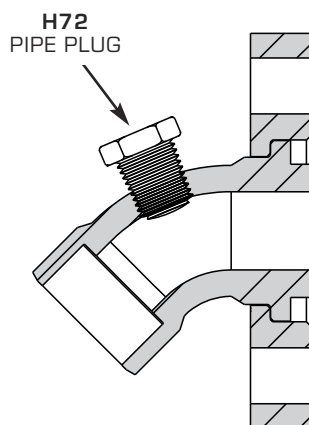


| PART # | FLANGE SIZE | PIPE SIZE |
|-----------------|-------------|-----------|
| SBT45-12 | 3/4" | 3/4" |

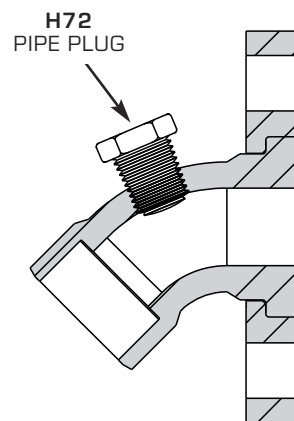
WITHOUT GROOVE



| PART # | FLANGE SIZE | PIPE SIZE |
|------------------|-------------|-----------|
| SBFT45-12 | 3/4" | 3/4" |



| PART # | FLANGE SIZE | PIPE SIZE |
|-------------------|-------------|-----------|
| SBT45-12-1 | 3/4" | 3/4" |



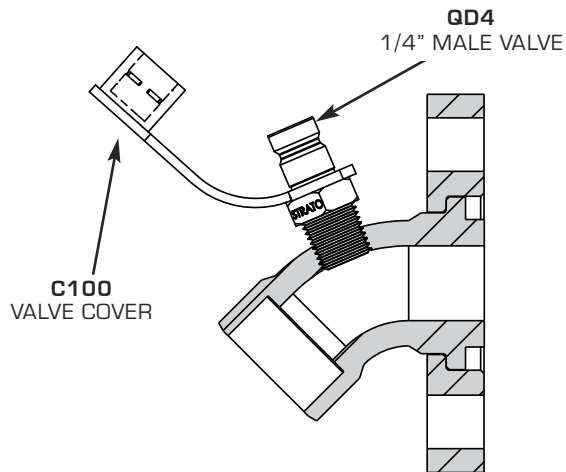
| PART # | FLANGE SIZE | PIPE SIZE |
|--------------------|-------------|-----------|
| SBFT45-12-1 | 3/4" | 3/4" |

WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

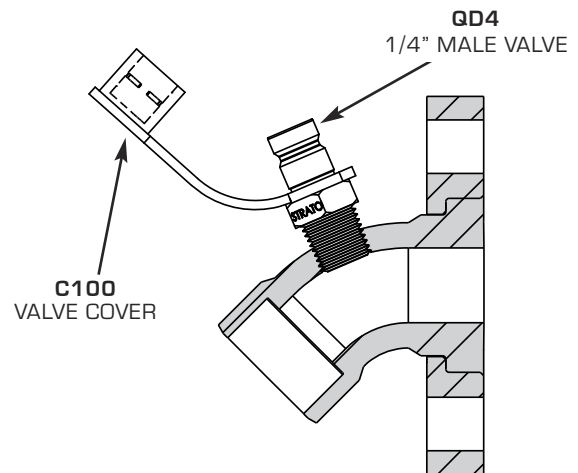
45° SOCKET WELD ASSEMBLIES WITH TEST PORT FOR TESTING BRAKE CYLINDER PRESSURE

WITH GROOVE



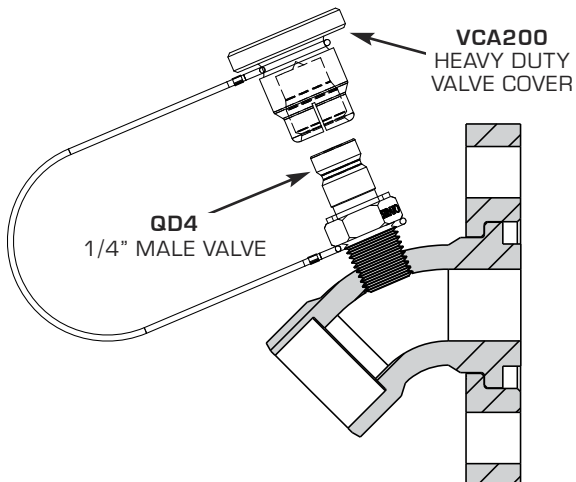
| PART # | FLANGE SIZE | PIPE SIZE |
|-------------------|-------------|-----------|
| SBT45-12-2 | 3/4" | 3/4" |

WITHOUT GROOVE



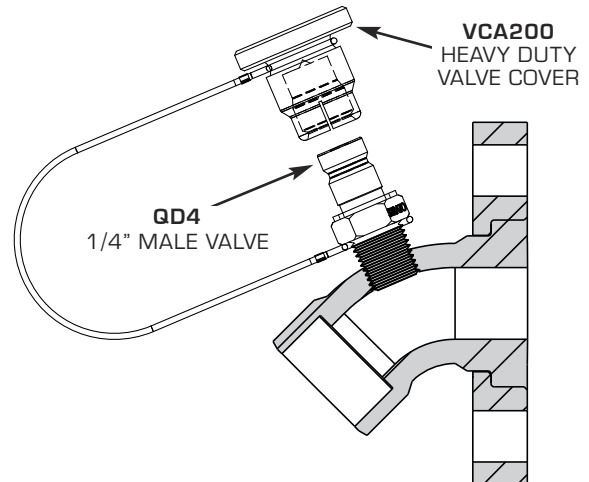
| PART # | FLANGE SIZE | PIPE SIZE |
|--------------------|-------------|-----------|
| SBFT45-12-2 | 3/4" | 3/4" |

WITH GROOVE AND HEAVY DUTY VALVE COVER



| PART # | FLANGE SIZE | PIPE SIZE |
|-------------------|-------------|-----------|
| SBT45-12-3 | 3/4" | 3/4" |

WITHOUT GROOVE WITH HEAVY DUTY VALVE COVER



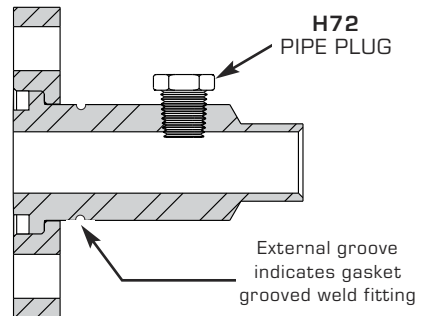
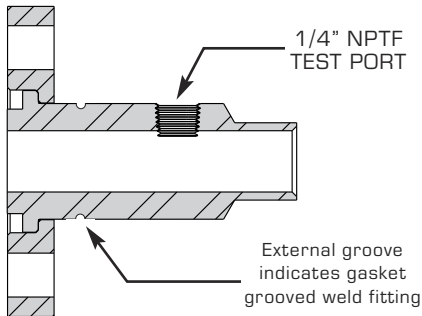
| PART # | FLANGE SIZE | PIPE SIZE |
|--------------------|-------------|-----------|
| SBFT45-12-3 | 3/4" | 3/4" |

WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

INTERNAL SOCKET WELD ASSEMBLIES WITH TEST PORT FOR TESTING BRAKE CYLINDER PRESSURE

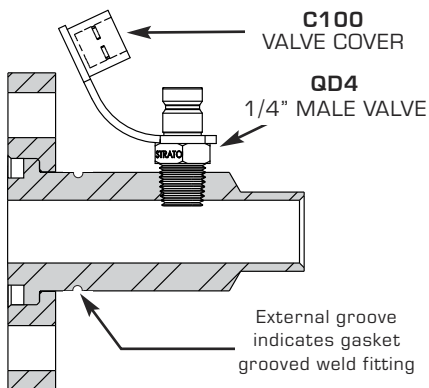
WITH GROOVE



| PART # | FLANGE SIZE | PIPE SIZE |
|-------------------|-------------|-----------|
| ISWG12-8T | 1/2" | 3/4" |
| ISWG16-12T | 3/4" | 1" |

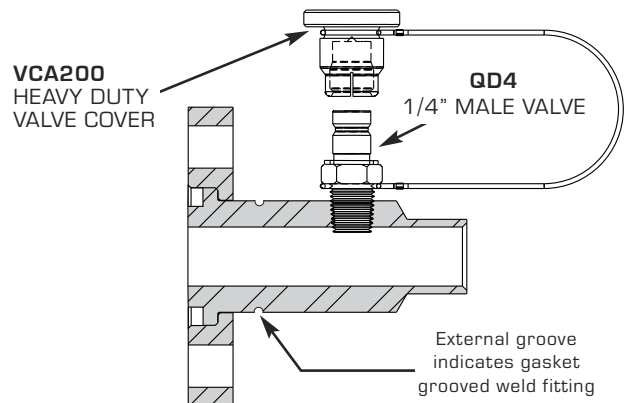
| PART # | FLANGE SIZE | PIPE SIZE |
|---------------------|-------------|-----------|
| ISWG16-12T-1 | 3/4" | 1" |
| ISWG20-12T-1 | 3/4" | 1-1/4" |

WITH GROOVE AND VALVE COVER



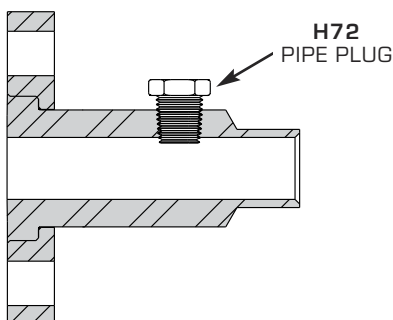
| PART # | FLANGE SIZE | PIPE SIZE |
|---------------------|-------------|-----------|
| ISWG20-12T-2 | 3/4" | 1-1/4" |

WITH GROOVE AND HEAVY DUTY VALVE COVER



| PART # | FLANGE SIZE | PIPE SIZE |
|---------------------|-------------|-----------|
| ISWG20-12T-3 | 3/4" | 1-1/4" |

WITHOUT GROOVE

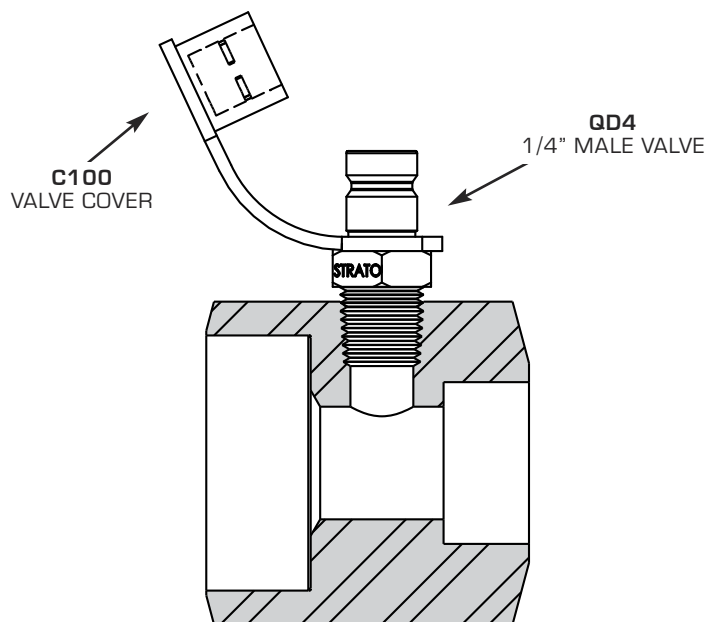


| PART # | FLANGE SIZE | PIPE SIZE |
|---------------------|-------------|-----------|
| ISWB16-12T-1 | 3/4" | 1" |

WARNING: REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

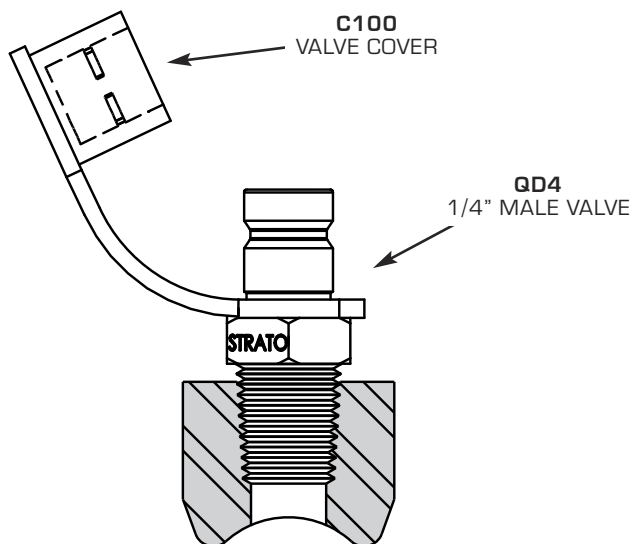
REDUCING SOCKET WELD UNIONS AND SADDLE WELD FITTINGS WITH TEST PORT

FOR TESTING BRAKE CYLINDER PRESSURE



| PART # | PIPE SIZE |
|--------------------|---------------|
| RSW20-12T-2 | 3/4" - 1-1/4" |

SADDLE WELD FITTING

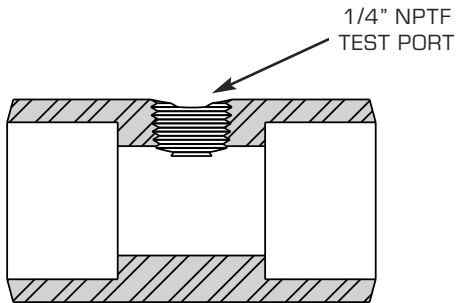


| PART # |
|----------------|
| SDT12-2 |

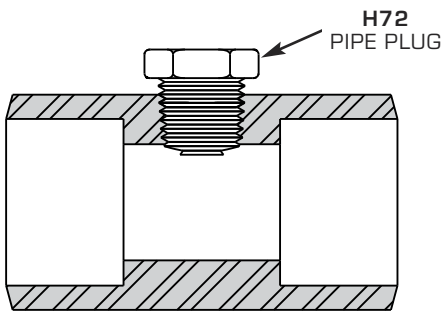
WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!

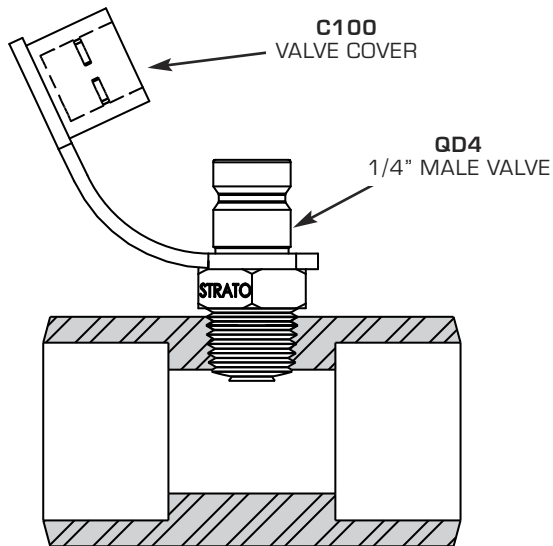
STRAIGHT SOCKET WELD UNIONS WITH TEST PORT FOR TESTING BRAKE CYLINDER PRESSURE



| PART # | PIPE SIZE |
|--------------|-----------|
| SWT6 | 3/8" |
| SWT8 | 1/2" |
| SWT12 | 3/4" |



| PART # | PIPE SIZE |
|----------------|-----------|
| SWT8-1 | 1/2" |
| SWT12-1 | 3/4" |



| PART # | PIPE SIZE |
|----------------|-----------|
| SWT8-2 | 1/2" |
| SWT12-2 | 3/4" |

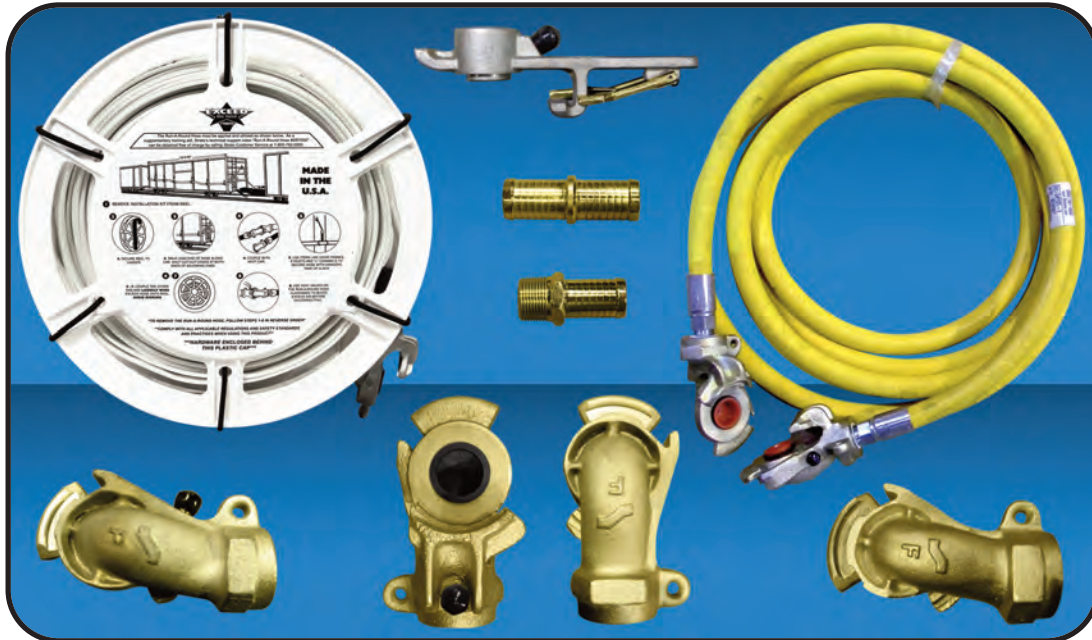
WARNING:

REMOVE VALVE PRIOR TO WELDING TO PREVENT DAMAGE FROM HEAT!



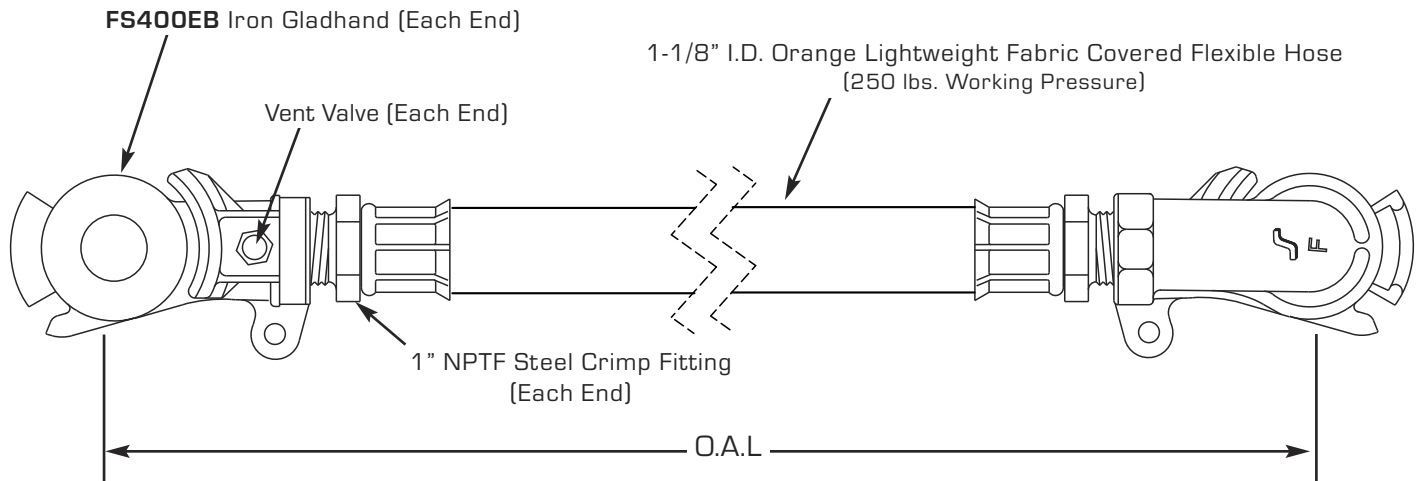
100 New England Avenue • Piscataway, NJ 08854

GROUND HOSES



ORANGE GROUND HOSE ASSEMBLIES FOR CHARGING AIR BRAKE SYSTEMS

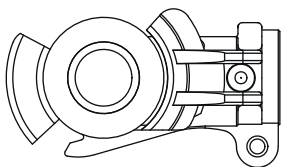
LIGHTWEIGHT, COLLAPSIBLE, 1-1/8" INSIDE DIAMETER



| PART # | O.A.L. | WEIGHT |
|-----------------|---------|----------|
| GHF25-1 | 25 Ft. | 13.5 Lbs |
| GHF33-1 | 33 Ft. | 15.5 Lbs |
| GHF50-1 | 50 Ft. | 20.0 Lbs |
| GHF75-1 | 75 Ft. | 26.5 Lbs |
| GHF100-1 | 100 Ft. | 31.0 Lbs |

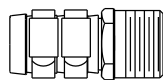
FIELD REPAIR PARTS

Gladhand w/ Bleed Valve
and Gasket



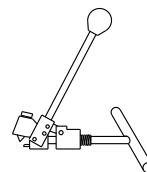
PART #
FS400EB

Ground Hose Mender Kit Includes
1 ea. - 1" Pipe Thread Nipple
2 ea. - Band Clamps



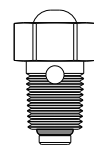
PART #
GHM-1K

Band Clamping Tool
(Special for 3/8" Band Only)



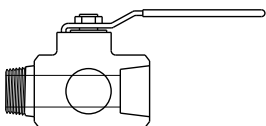
PART #
BCT-38

Vent Valve
w/ Blow-Out Proof Stem



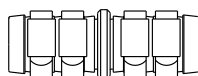
PART #
S115

1" NPTF Male x Female
Ball Valve



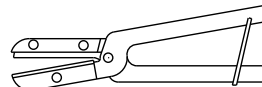
PART #
S194

Ground Hose Mender Kit Includes
1 ea. - Connector Nipple
4 ea. - Band Clamps



PART #
GHM-2K

Ground Hose Cutter



PART #
GHC-25

Replacement Blades & Anvil

PART #
GHC-26

Band Clamp



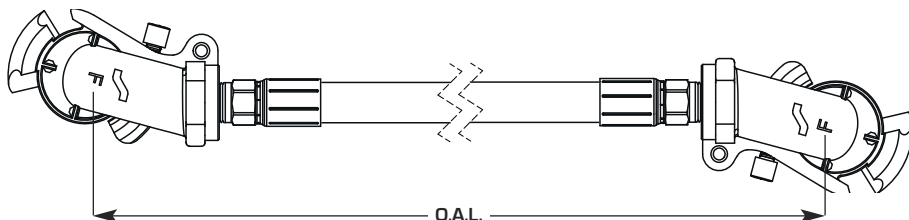
PART #
K-311

FLEXIBLE GROUND HOSE / YARD AIR HOSE

Heavy Duty Hose – Flexible and Lightweight

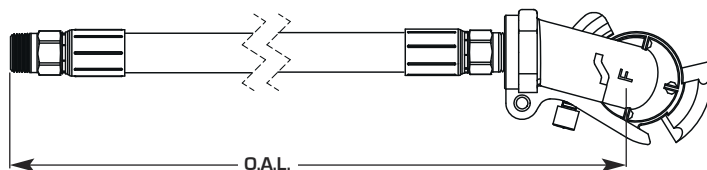
Bright yellow, 3/4" hose for easy visual identification with 3/4" male pipe fittings. Comes with vented gladhands to vent air so that the gladhands can be safely disconnected. The assembly is crimped, not banded, for increased durability and safety.

Gladhands on Each Side



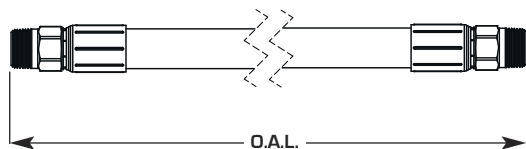
| PART# | O.A.L. |
|----------|---------|
| GHY25-1 | 25 ft. |
| GHY50-1 | 50 ft. |
| GHY75-1 | 75 ft. |
| GHY100-1 | 100 ft. |

Gladhands & Male Pipe



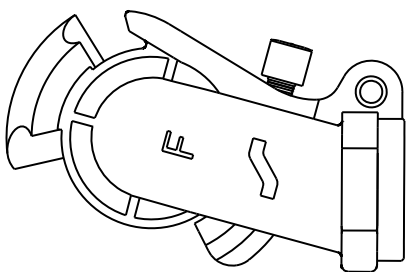
| PART# | O.A.L. |
|----------|---------|
| GHY75-3 | 75 ft. |
| GHY100-3 | 100 ft. |

Male Pipe on Each End



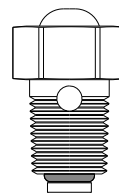
| PART# | O.A.L. |
|----------|---------|
| GHY50-4 | 50 ft. |
| GHY75-4 | 75 ft. |
| GHY100-4 | 100 ft. |

IRON GLADHAND w/Vent Valve



| PART # |
|----------------|
| FS315EB |

VENT VALVE w/Blow-Out Proof Stem

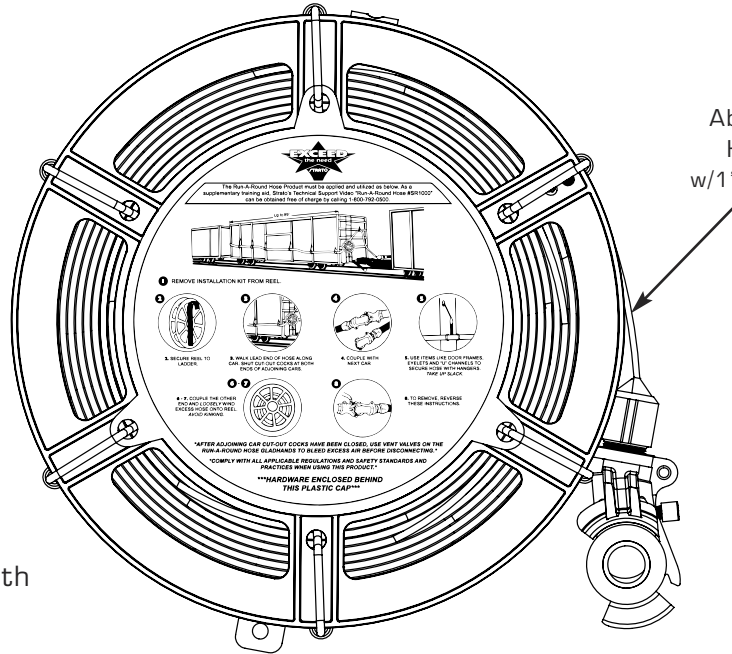


| PART # |
|-------------|
| S115 |



STRATO'S RUN-A-ROUND HOSE

QUICK AND SAFE FOR MOVING A TRAIN DISABLED BY AIR BRAKE FAILURE



105' Overall Hose Length

Abrasion Resistant
Hose (1-1/8" I.D.)
w/1" Fittings (1-1/8" I.D.)

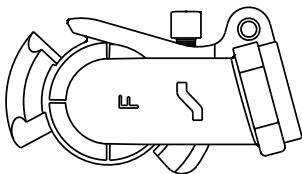
PART #
SR1000

ALL RUN-A-ROUND HOSE KITS INCLUDE THE FOLLOWING

1. Durable, Yet Lightweight Reusable 105' Hose-Tested to 250psi
2. High Impact Plastic Reel
3. Lightweight Aluminum Gladhands
4. Red Cinch Cord for Securing the Reel to the Car
5. Bungee Retaining Cords to Hold Hose to the Reel
6. Hose Hangers for Attaching the Hose to the Side of the Car
7. Safety Vent Valves to Depressurize the Air Hose Before Removal

ACCESSORIES

Gladhand w/Vent Valve



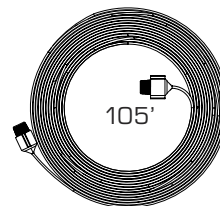
PART #
FS415EB

Hose Reel



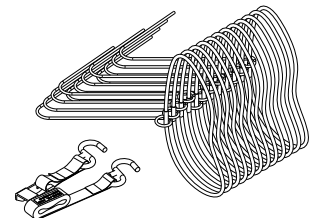
PART #
SR200

Hose w/Fittings
Standard Size Shown
Custom Lengths Available



PART #
FH105

Replacement Hose
Hanger Kit



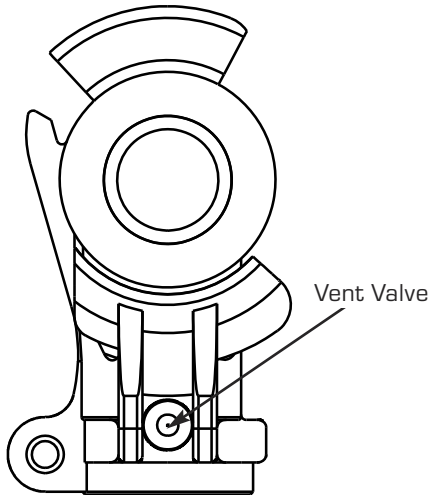
PART #
HK100

GLADHANDS FOR GROUND HOSE AND TEST DEVICES

SCREW-ON WITH FEMALE THREADS

WITH VENT VALVE

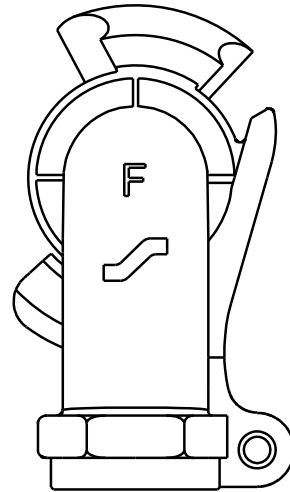
0° Offset



| PART # | TYPE | THREAD |
|----------------|------|---------|
| FS400EB | FS-4 | 1" NPTF |

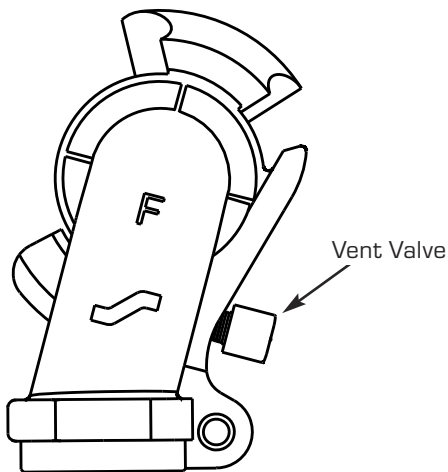
WITHOUT VENT VALVE

0° Offset



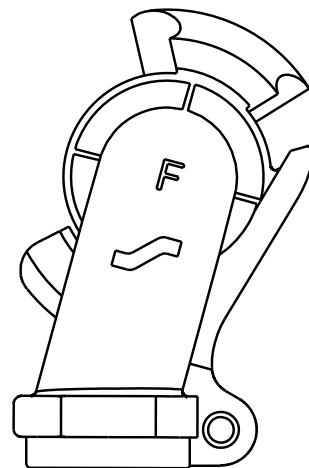
| PART # | TYPE | THREAD |
|---------------|------|-----------|
| FS300E | FS-3 | 3/4" NPTF |
| FS400E | FS-4 | 1" NPTF |

+15° Offset



| PART # | TYPE | THREAD |
|----------------|------|-----------|
| FS315EB | FS-3 | 3/4" NPTF |
| FS415EB | FS-4 | 1" NPTF |

+15° Offset

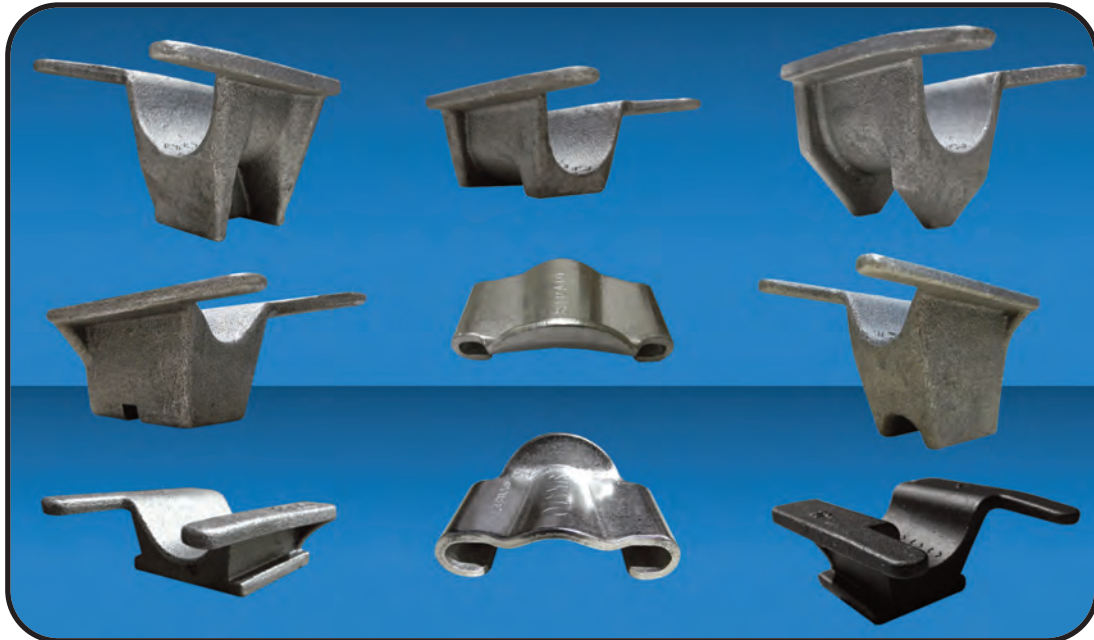


| PART # | TYPE | THREAD |
|---------------|------|-----------|
| FS315E | FS-3 | 3/4" NPTF |
| FS415E | FS-4 | 1" NPTF |



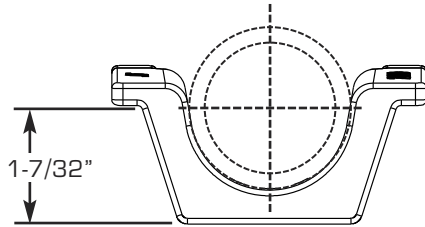
100 New England Avenue • Piscataway, NJ 08854

PIPE CLAMPS

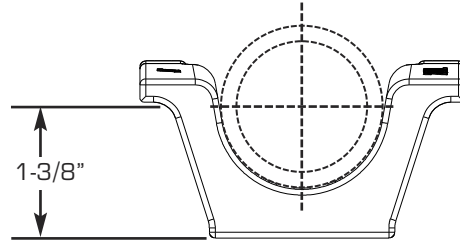


BASES & WEDGES FOR 1-1/4" PIPE

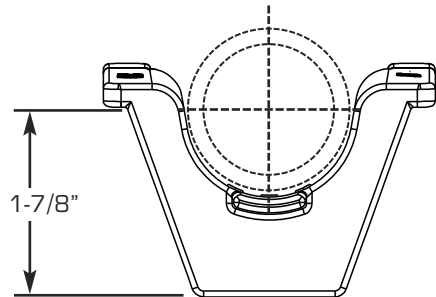
ALL PARTS ARE INTERCHANGEABLE WITH STANDARD PIPE CLAMPS



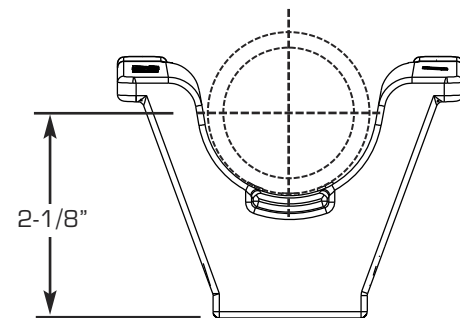
| PART # | PIPE CENTER HEIGHT |
|----------------|--------------------|
| SPC20LO | 1-7/32" |



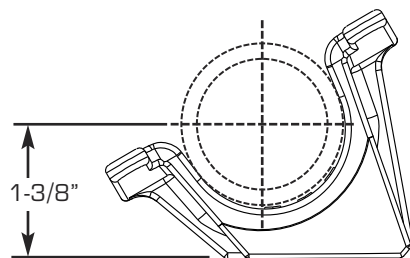
| PART # | PIPE CENTER HEIGHT |
|----------------|--------------------|
| SPC20ML | 1-3/8" |



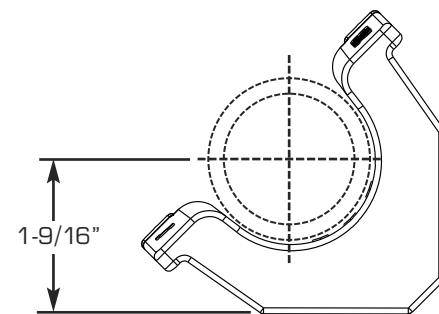
| PART # | PIPE CENTER HEIGHT |
|--------------|--------------------|
| SPC20 | 1-7/8" |



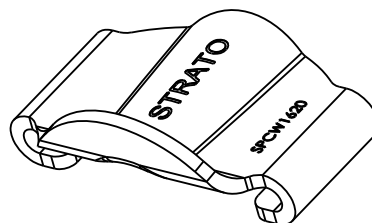
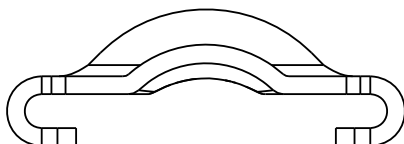
| PART # | PIPE CENTER HEIGHT |
|----------------|--------------------|
| SPC20HI | 2-1/8" |



| PART # | PIPE CENTER HEIGHT |
|----------------|--------------------|
| SPC20AN | 1-3/8" |



| PART # | PIPE CENTER HEIGHT |
|----------------|--------------------|
| SPC20VB | 1-9/16" |



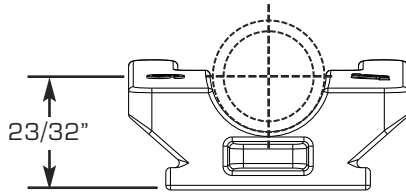
Pipe Clamp Wedge

| PART # | PIPE SIZE |
|-----------------|-------------|
| SPCW1620 | 1" & 1-1/4" |

BASES & WEDGES FOR 3/8", 1/2", 3/4" & 1" PIPE

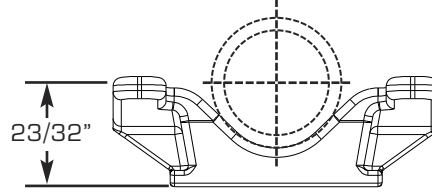
ALL PARTS ARE INTERCHANGEABLE WITH STANDARD PIPE CLAMPS

For 3/8" Pipe



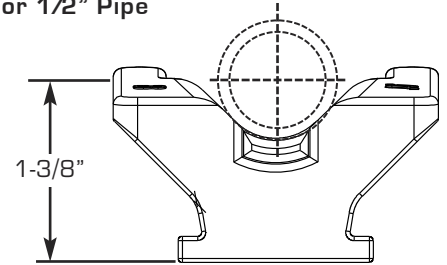
| PART # | PIPE CENTER HEIGHT |
|-------------|--------------------|
| SPC6 | 23/32" |

For 1/2" Pipe

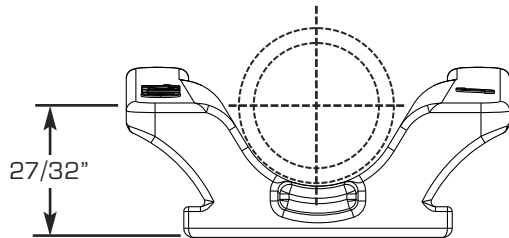


| PART # | PIPE CENTER HEIGHT |
|---------------|--------------------|
| SPC8LO | 23/32" |

For 1/2" Pipe

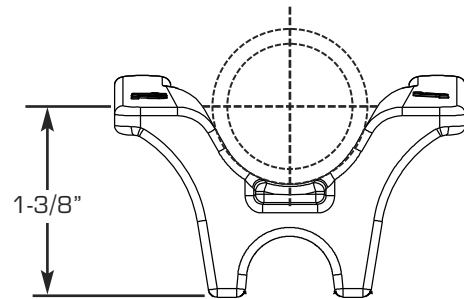


| PART # | PIPE CENTER HEIGHT |
|-------------|--------------------|
| SPC8 | 1-3/8" |



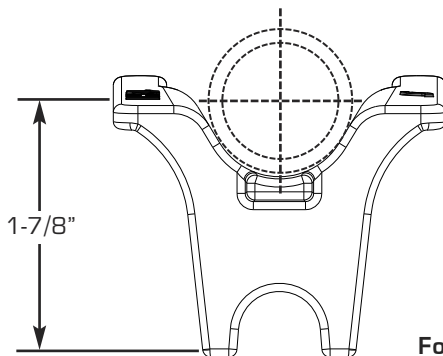
For 3/4" Pipe

| PART # | PIPE CENTER HEIGHT |
|----------------|--------------------|
| SPC12LO | 27/32" |



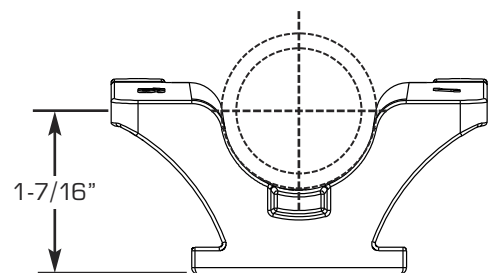
For 3/4" Pipe

| PART # | PIPE CENTER HEIGHT |
|--------------|--------------------|
| SPC12 | 1-3/8" |



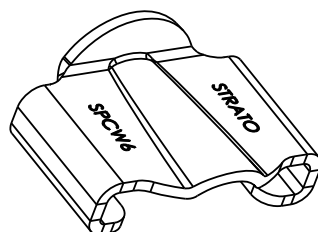
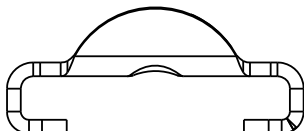
For 3/4" Pipe

| PART # | PIPE CENTER HEIGHT |
|----------------|--------------------|
| SPC12HI | 1-7/8" |



For 1" Pipe

| PART # | PIPE CENTER HEIGHT |
|--------------|--------------------|
| SPC16 | 1-7/16" |

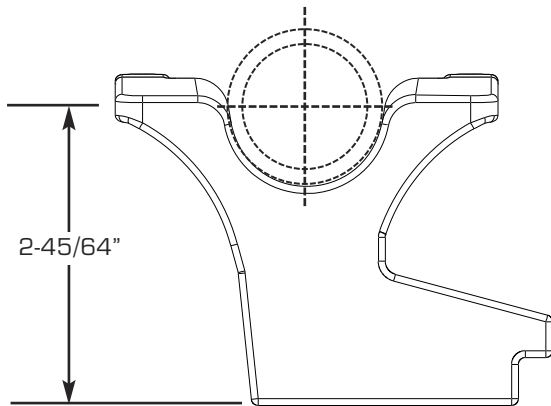


Pipe Clamp Wedge

| PART # | PIPE SIZE |
|-----------------|-------------|
| SPCW6 | 3/8" |
| SPCW812 | 1/2" & 3/4" |
| SPCW1620 | 1" & 1-1/4" |

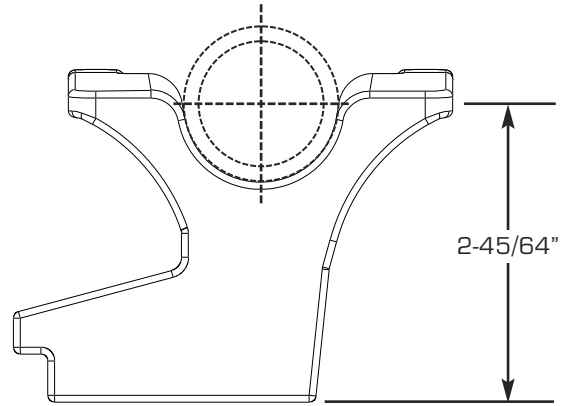
SPECIALTY PIPE CLAMPS FOR 1" & 1-1/4" PIPE

BOLTED BOTTOM PIPE HANGER



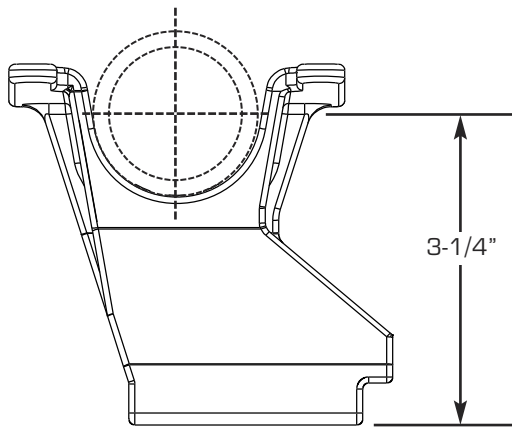
For 1" Pipe

| PART # | PIPE CENTER HEIGHT |
|-----------------|--------------------|
| SPC16-BL | 2-45/64" |



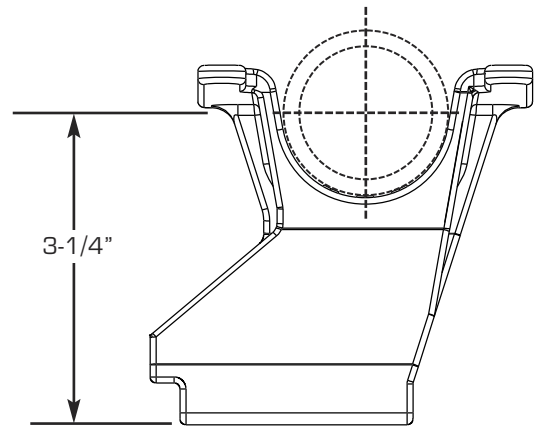
For 1" Pipe

| PART # | PIPE CENTER HEIGHT |
|-----------------|--------------------|
| SPC16-BR | 2-45/64" |



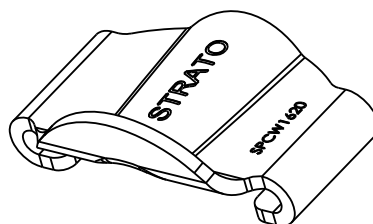
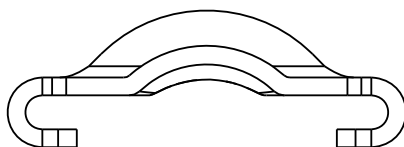
For 1-1/4" Pipe

| PART # | PIPE CENTER HEIGHT |
|-----------------|--------------------|
| SPC20-BL | 3-1/4" |



For 1-1/4" Pipe

| PART # | PIPE CENTER HEIGHT |
|-----------------|--------------------|
| SPC20-BR | 3-1/4" |

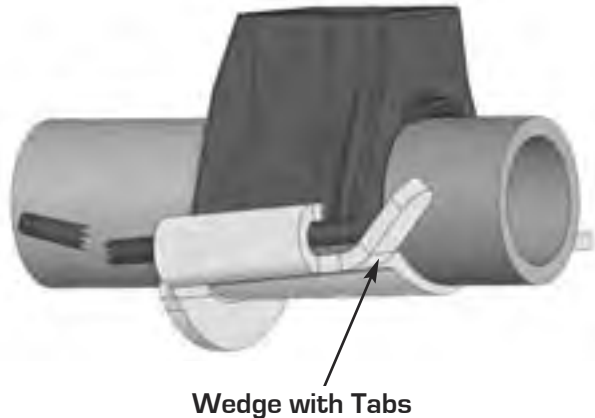


Pipe Clamp Wedge

| PART # | PIPE SIZE |
|-----------------|-------------|
| SPCW1620 | 1" & 1-1/4" |

PIPE CLAMP WEDGE WITH LOCKING TABS

Never have to cut off a pipe clamp base due to broken tabs



Simply slide the new wedge with locking tabs over the base, bend one tab and ***YOU'RE READY TO GO!***



Benefits:

Using a wedge with the tabs

- Increases the useful life of a pipe clamp base
- Saves time and money
 - Eliminates the need to remove the entire pipe to fix a failed base
 - Wedge with locking tabs slides over existing base

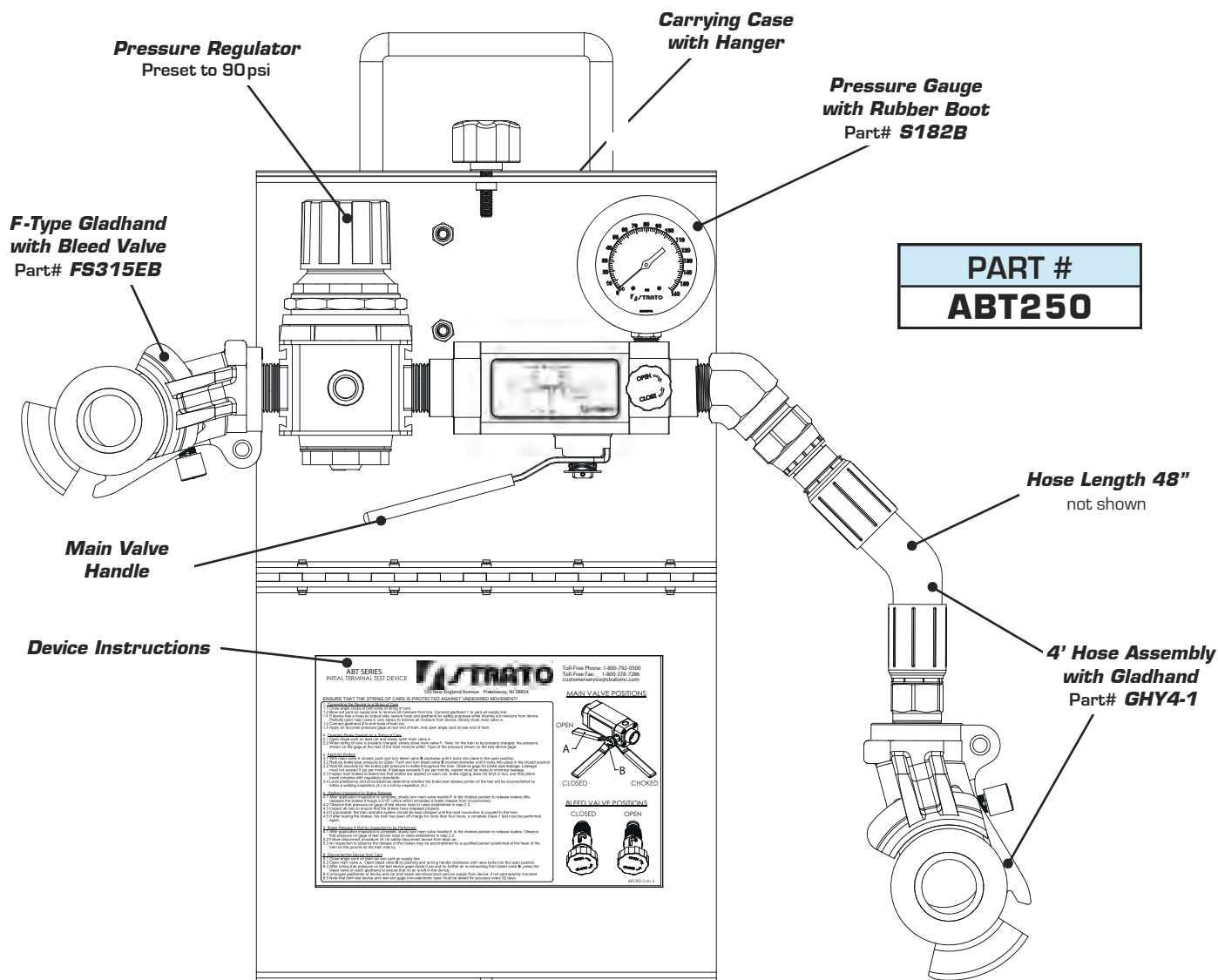


| PART # | PIPE SIZE |
|------------------|-------------|
| SPCW6T | 3/8" |
| SPCW812T | 1/2" & 3/4" |
| SPCW1620T | 1" & 1-1/4" |

[illegible]

LIGHTWEIGHT TERMINAL TEST DEVICE

Includes pressure regulator & carrying case with hanger to attach to a knuckle flag hole or a car handhold

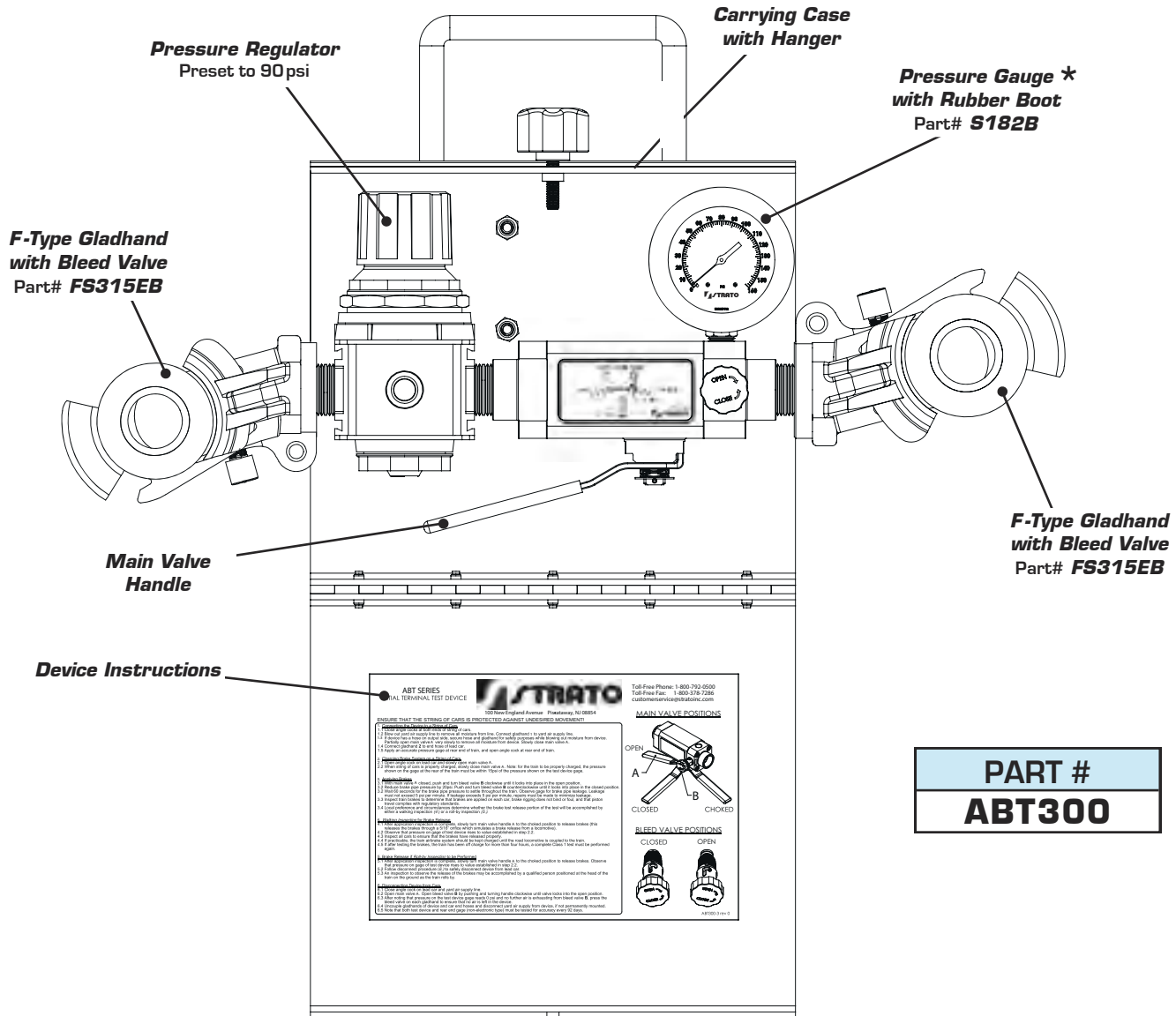


- * The pressure gauge needs to be calibrated every 92 days in accordance with FRA Title 49, Section 232, Paragraph (d); all devices are calibrated at time of shipment and labeled with the next calibration date. A replacement pressure gauge can be purchased separately – fully calibrated and ready to install on the terminal test device - (Strato Part # S182B)

FRA rules allow a terminal test device to be used to charge and test the train using a yard air source.

LIGHTWEIGHT TERMINAL TEST DEVICE

Includes pressure regulator & carrying case with hanger to attach to a knuckle flag hole or a car handhold



- * The pressure gauge needs to be calibrated every 92 days in accordance with FRA Title 49, Section 232, Paragraph (d); all devices are calibrated at time of shipment and labeled with the next calibration date. A replacement pressure gauge can be purchased separately – fully calibrated and ready to install on the terminal test device - (Strato Part # S182B)

FRA rules allow a terminal test device to be used to charge and test the train using a yard air source.

ABT250 & ABT300 INSTRUCTIONS

INITIAL TERMINAL TEST DEVICE

ENSURE THAT THE STRING OF CARS IS PROTECTED AGAINST UNDESIRABLE MOVEMENT!

1. Connecting the Device to a String of Cars

- 1.1 Close angle cocks at both ends of string of cars.
- 1.2 Blow out yard air supply line to remove all moisture from line. Connect gladhand 1 to yard air supply line.
- 1.3 If device has a hose on output side, secure hose and gladhand for safety purposes while blowing out moisture from device.
Partially open main valve A very slowly to remove all moisture from device. Slowly close main valve A.
- 1.4 Connect gladhand 2 to end hose of lead car.
- 1.5 Apply an accurate pressure gage at rear end of train, and open angle cock at rear end of train.

2. Charging Brake System on a String of Cars

- 2.1 Open angle cock on lead car and slowly open main valve A.
- 2.2 When string of cars is properly charged, slowly close main valve A. Note: for the train to be properly charged, the pressure shown on the gage at the rear of the train must be within 15 psi of the pressure shown on the test device gage.

3. Applying Brakes

- 3.1 With main valve A closed, push and turn bleed valve B clockwise until it locks into place in the open position.
- 3.2 Reduce brake pipe pressure by 20 psi. Push and turn bleed valve B counterclockwise, then release slowly until it stops in the closed position.
- 3.3 Wait 60 seconds for the brake pipe pressure to settle throughout the train.
Observe gage for brake pipe leakage. Leakage must not exceed 5 psi per minute. If leakage exceeds 5 psi per minute, repairs must be made to minimize leakage.
- 3.4 Inspect train brakes to determine that brakes are applied on each car, brake rigging does not bind or foul, and that piston travel complies with regulatory standards.
- 3.5 Local preference and circumstances determine whether the brake test release portion of the test will be accomplished by either a walking inspection (4.) or a roll-by inspection (5.).

4. Walking Inspection for Brake Release

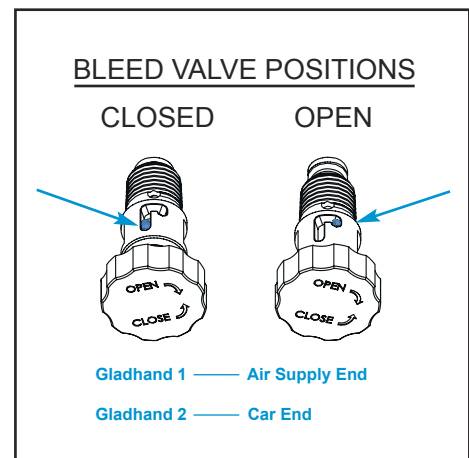
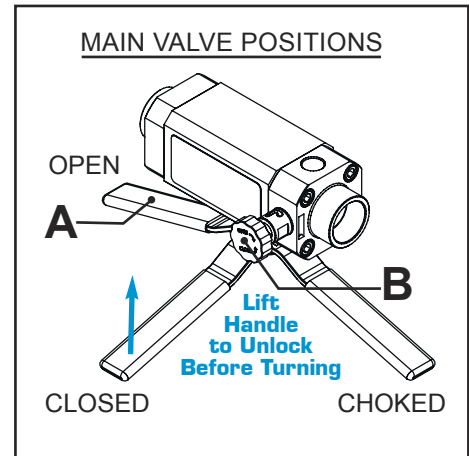
- 4.1 After application inspection is complete, slowly turn main valve handle A to the choked position to release brakes (this releases the brakes through a 5/16" orifice which simulates a brake release from a locomotive).
- 4.2 Observe that pressure on gage of test device rises to value established in step 2.2.
- 4.3 Inspect all cars to ensure that the brakes have released properly.
- 4.4 If practicable, the train airbrake system should be kept charged until the road locomotive is coupled to the train.
- 4.5 If after testing the brakes, the train has been off charge for more than four hours, a complete Class 1 test must be performed again.

5. Brake Release if Roll-by Inspection to be Performed

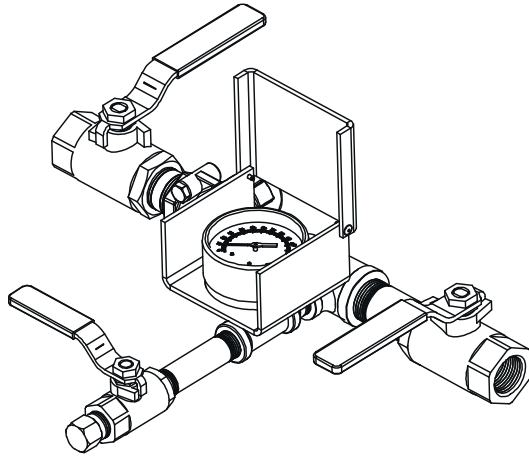
- 5.1 After application inspection is complete, slowly turn main valve handle A to the choked position to release brakes. Observe that pressure on gage of test device rises to value established in step 2.2.
- 5.2 Follow disconnect procedure (6.) to safely disconnect device from lead car.
- 5.3 An inspection to observe the release of the brakes may be accomplished by a qualified person positioned at the head of the train on the ground as the train rolls by.

6. Disconnecting Device from Cars

- 6.1 Close angle cock on lead car and yard air supply line.
- 6.2 Open main valve A. Open bleed valve B by pushing and turning handle clockwise until valve locks into the open position.
- 6.3 After noting that pressure on the test device gage reads 0 psi and no further air is exhausting from bleed valve B, press the bleed valve on each gladhand to ensure that no air is left in the device.
- 6.4 Uncouple gladhands of device and car end hoses and disconnect yard air supply from device, if not permanently mounted.
- 6.5 Note that both test device and rear end gage (non-electronic type) must be tested for accuracy every 92 days.

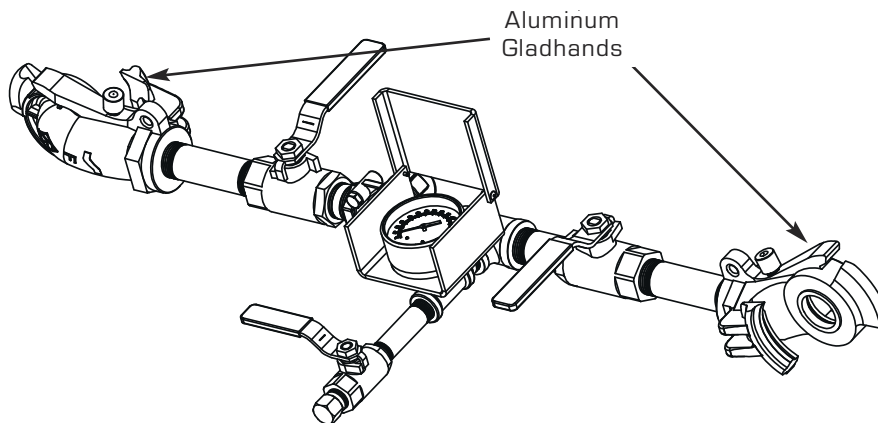


PORTABLE TRAIN YARD TEST DEVICES WITH HARD PIPE CONNECTION



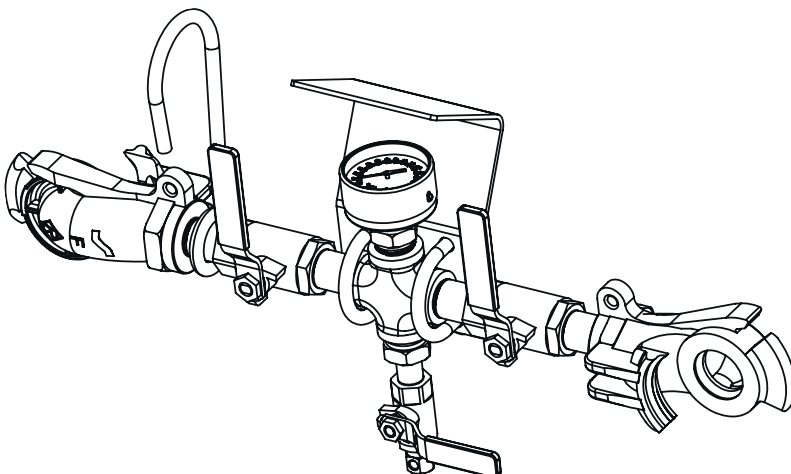
PART #
ABT100U

Used for the initial
terminal test



PART #
ABT100G

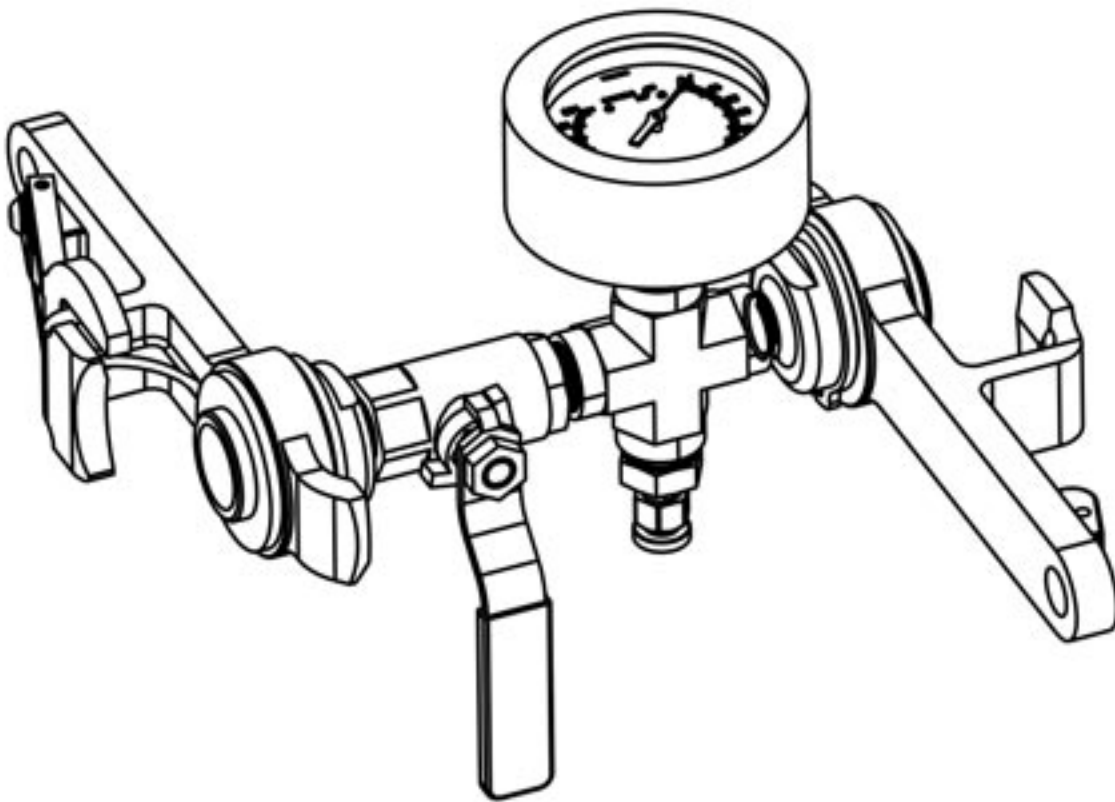
Used for the initial
terminal test
w/check valve



PART #
ABT12-12-6

Used for the initial
terminal test

BRAKE RE-APPLICATION DEVICE WITH LOCKING HANDLES & PROTECTIVE CASE

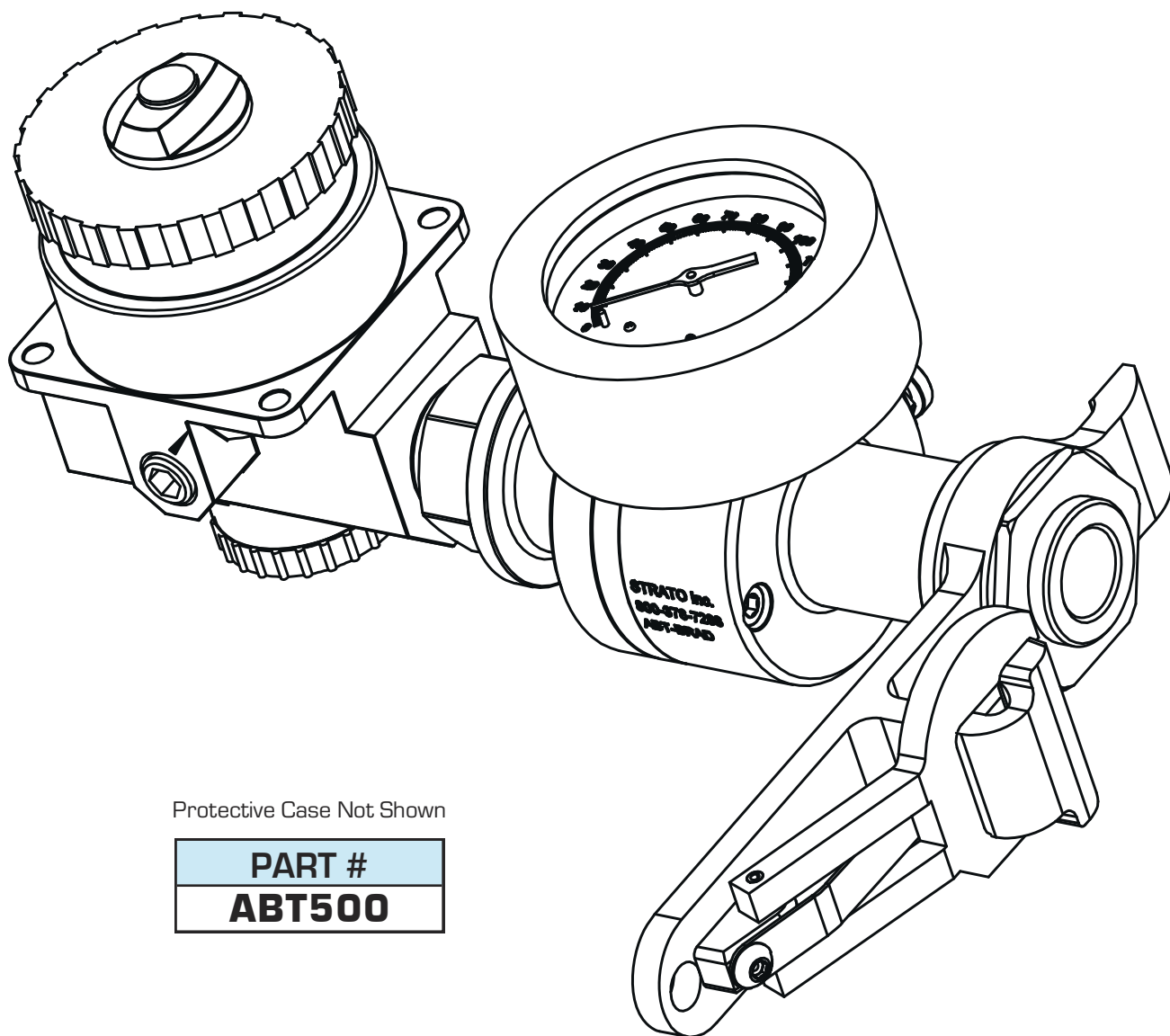


Protective Case Not Shown

| |
|---------------|
| PART # |
| BRAD |

Brake Re-Application Device allows you to re-test cars that have failed a Class 1 or 1A brake test without removing them from the train.

LOCOMOTIVE TEST DEVICE



Protective Case Not Shown

| |
|---------------|
| PART # |
| ABT500 |

This locomotive test device prepares and assures that the brakes are set up correctly for transportation as a “dead engine”. It is used to check brake cylinder pressure, piston travel, internal and external leakage before a “dead engine” is placed in a train, preventing train delays and locomotive wheel damage.

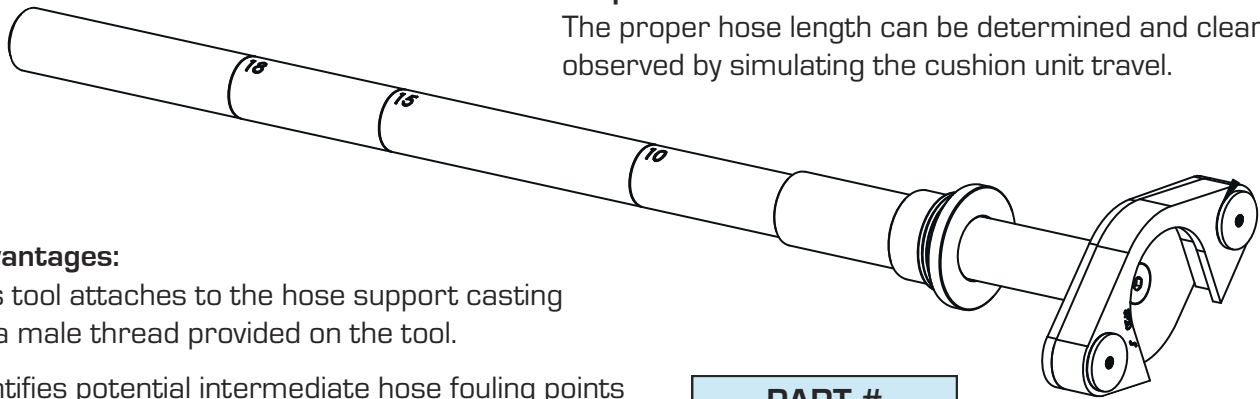
TOOLS

END-OF-CAR TOOLS

INTERMEDIATE HOSE TRAVEL SIMULATOR

Purpose:

The proper hose length can be determined and clearances observed by simulating the cushion unit travel.



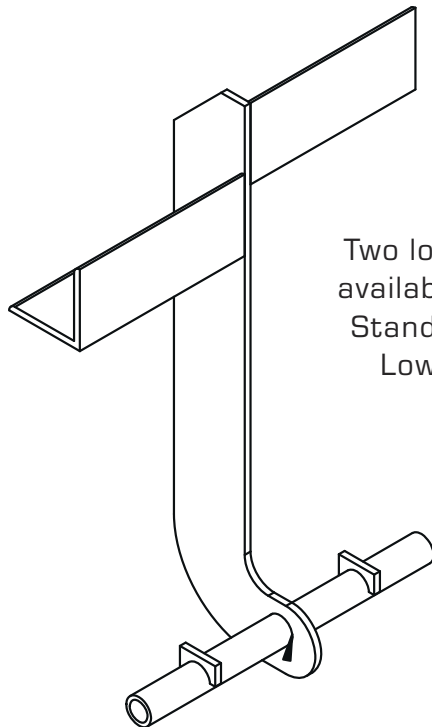
Advantages:

This tool attaches to the hose support casting via a male thread provided on the tool.

Identifies potential intermediate hose fouling points by simulating cushion device in full buff position.

PART #
EOCT-IHTS

UNIVERSAL TROLLEY LOCATING FIXTURE

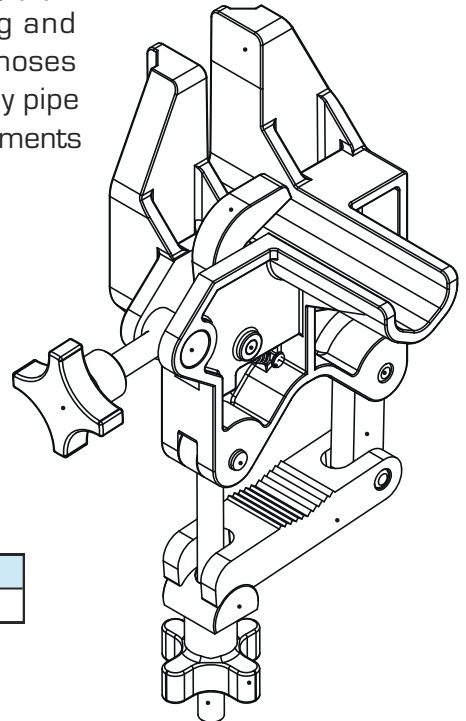


Two locating heights available for use with Standard Level and Low Level cars.

PART #
EOCT-UTLF

TROLLEY PIPE STABILIZER

Secures trolley pipe while installing and removing end hoses on sliding trolley pipe (S427) arrangements

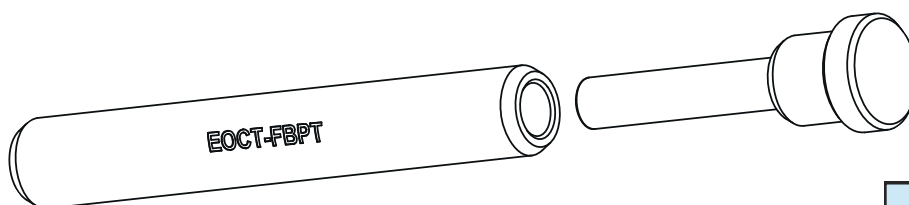


PART #
TPS100

TOOLS

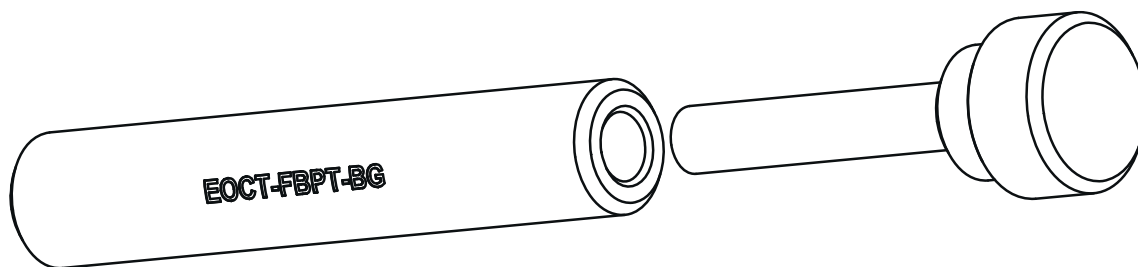
F-BRACKET PIN TOOLS

F-BRACKET PIN TOOL - SHORT HANDLE



| |
|------------------|
| PART # |
| EOCT-FBPT |

F-BRACKET PIN TOOL - 1-1/2"



| |
|---------------------|
| PART # |
| EOCT-FBPT-BG |

F-BRACKET PIN TOOL - TWO SECTION



| |
|---------------------|
| PART # |
| EOCT-FBPT-TS |

Purpose:

Used to aid in removing the yoke pin retainer bolt while safely maintaining the yoke pin and its retainer in their proper position.

TOOLS

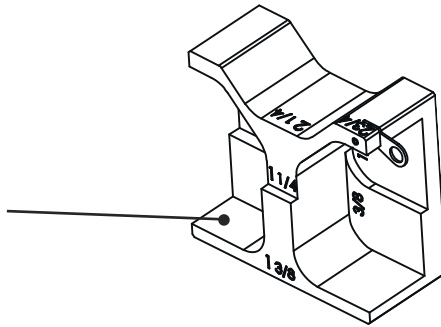
EMPTY LOAD SETUP KIT

Includes Step Block & Locking Pin Assembly

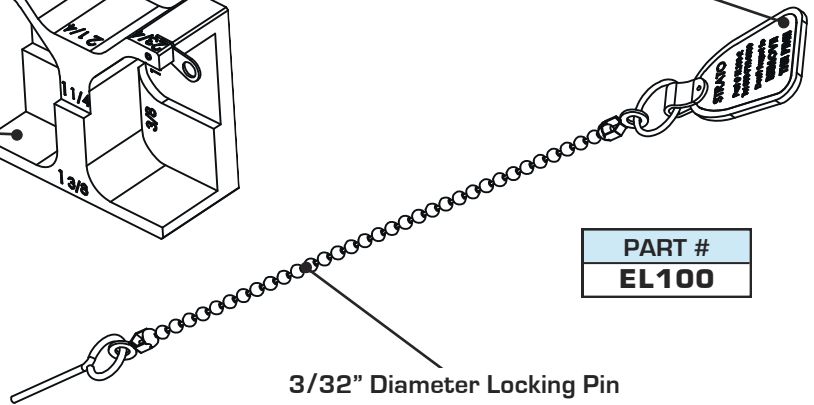
Step Block is used for setting up ELD's with sensor arm

Common heights machined on solid aluminum, hard anodized step block

| | |
|-------|--------|
| 1/4" | 1-1/4" |
| 3/8" | 1-3/8" |
| 7/16" | 2-1/4" |
| 5/8" | 2-3/4" |



Bright orange teardrop tag serves as a flag for pin removal.



PART #
EL100

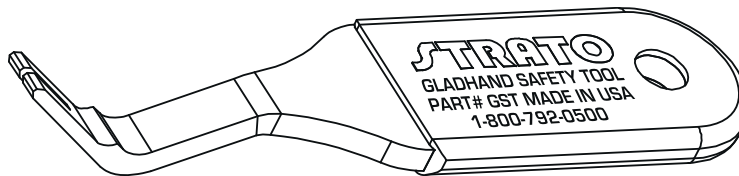
3/32" Diameter Locking Pin Assembly

Purpose:

Universal tool kit for setting up Empty Load devices.

2-1 GLADHAND SAFETY TOOL

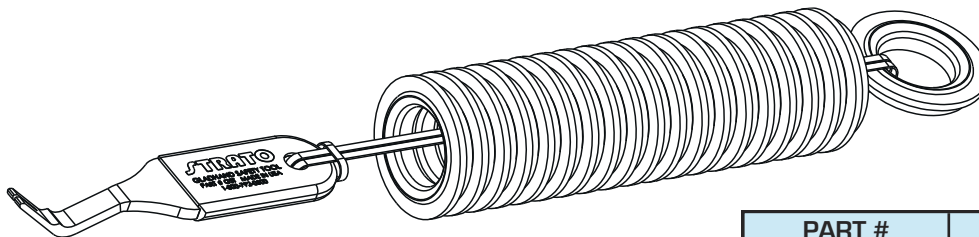
Special tip for venting air and gasket removal



PART #
GST

2-1 GLADHAND SAFETY TOOL WITH GASKETS

Available with Wide Seal, Standard and Doublewide Gaskets

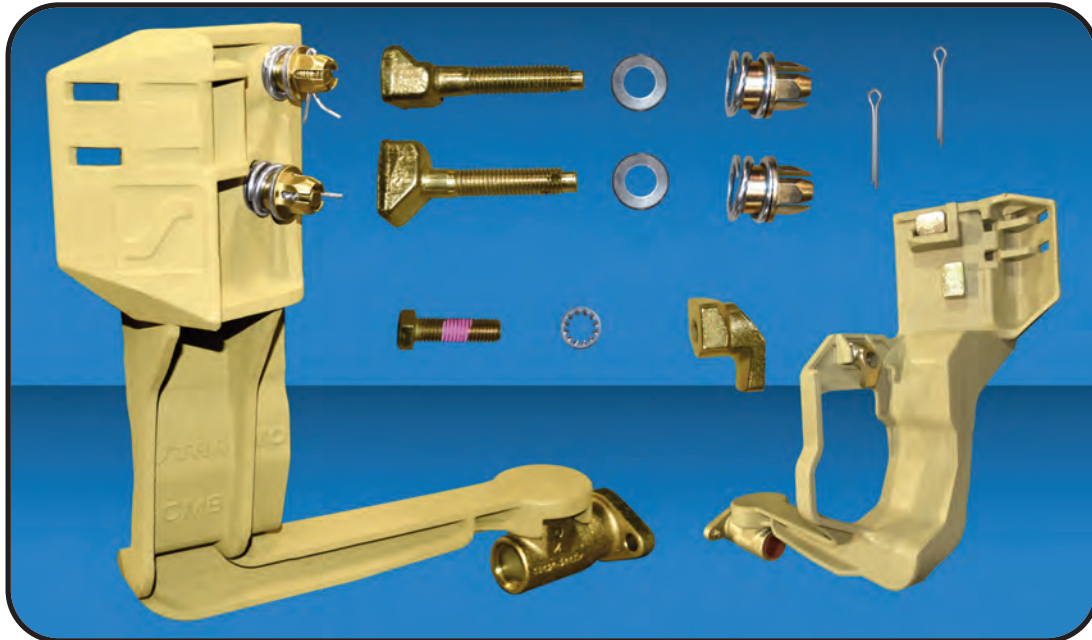


| PART # | DESCRIPTION |
|------------------|------------------------------|
| GST-20GWS | W/ WIDE SEAL GASKETS |
| GST-20S | W/ STANDARD GASKETS |
| GST-20 | W/ DOUBLEWIDE GASKETS |



100 New England Avenue • Piscataway, NJ 08854

CMBA



COUPLER MOUNTED BRACKET (CMBA)

AAR Approved S-4021, S-427 and Other Long Shank Coupler Applications
Rule 6 AAR Job Code: 1632

For changes to arrangement beyond allowable per Rule 6, car owner approval must be obtained to install CMB. Contact Strato for an assessment of compatibility by specific car class and series. Care must be taken to ensure the CMB cannot come into contact with any carbody components - Call Customer Service at 1.800.792.0500 for installation instructions.



TOOLS REQUIRED FOR INSTALLATION

- Ratchet
- 15/16" Deep Socket
- 3/4" Socket
- Flat Screwdriver
- Pliers or other tool suitable for bending cotter pins

| |
|---------------|
| PART # |
| CMBA |



**FLANGED TRAINLINE
SUPPORT CASTING**

BENEFITS COMPARED TO TYPICAL END-OF-CAR ARRANGEMENTS

- Can be installed in approximately 15 minutes without welding or jacking of the car.
- Clamps directly to the coupler and keeps the trainline support casting in a fixed position in relation to the coupler, thus reducing stress on gladhand connections and preventing hose separations.

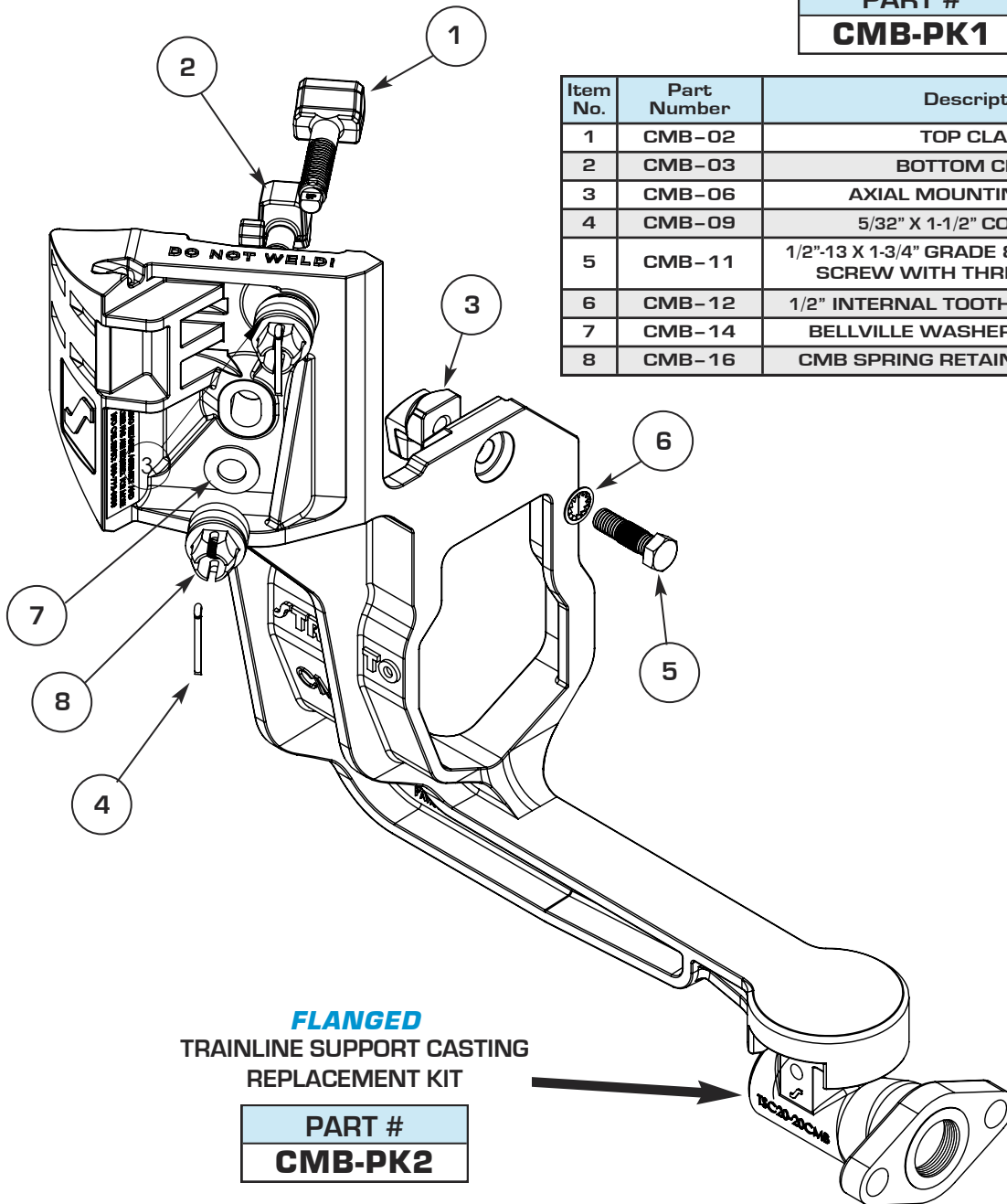
INSTALLATION HARDWARE KITS

REPLACEMENT HARDWARE FOR CMBA

INSTALLATION HARDWARE REPLACEMENT KIT

PART #
CMB-PK1

| Item No. | Part Number | Description | QTY. |
|----------|-------------|-----------------------------------------------------------------|------|
| 1 | CMB-02 | TOP CLAMP | 1 |
| 2 | CMB-03 | BOTTOM CLAMP | 1 |
| 3 | CMB-06 | AXIAL MOUNTING CLAMP | 1 |
| 4 | CMB-09 | 5/32" X 1-1/2" COTTER PIN | 2 |
| 5 | CMB-11 | 1/2"-13 X 1-3/4" GRADE 8 HEX HEAD CAP SCREW WITH THREAD COATING | 1 |
| 6 | CMB-12 | 1/2" INTERNAL TOOTH LOCK WASHER | 1 |
| 7 | CMB-14 | BELLVILLE WASHER (1914 LB FLAT) | 2 |
| 8 | CMB-16 | CMB SPRING RETAINER ASSEMBLY | 2 |





COUPLER MOUNTED BRACKET (CMBA-45)

AAR Approved S-4021, S-427 and Other Long Shank Coupler Applications

Rule 6 AAR Job Code: 1632

For changes to arrangement beyond allowable per Rule 6, car owner approval must be obtained to install CMB. Contact Strato for an assessment of compatibility by specific car class and series. Care must be taken to ensure the CMB cannot come into contact with any carbody components - Call Customer Service at 1.800.792.0500 for installation instructions.



TOOLS REQUIRED FOR INSTALLATION

- Ratchet
- 15/16" Deep Socket
- 3/4" Socket
- Flat Screwdriver
- Pliers or other tool suitable for bending cotter pins

PART #

CMBA-45



**45° FLANGED TRAINLINE
SUPPORT CASTING**

BENEFITS COMPARED TO TYPICAL END-OF-CAR ARRANGEMENTS

- Can be installed in approximately 15 minutes without welding or jacking of the car.
- Clamps directly to the coupler and keeps the trainline support casting in a fixed position in relation to the coupler, thus reducing stress on gladhand connections and preventing hose separations.

The trainline support casting has been modified to fit cars with limited clearance with car body components.

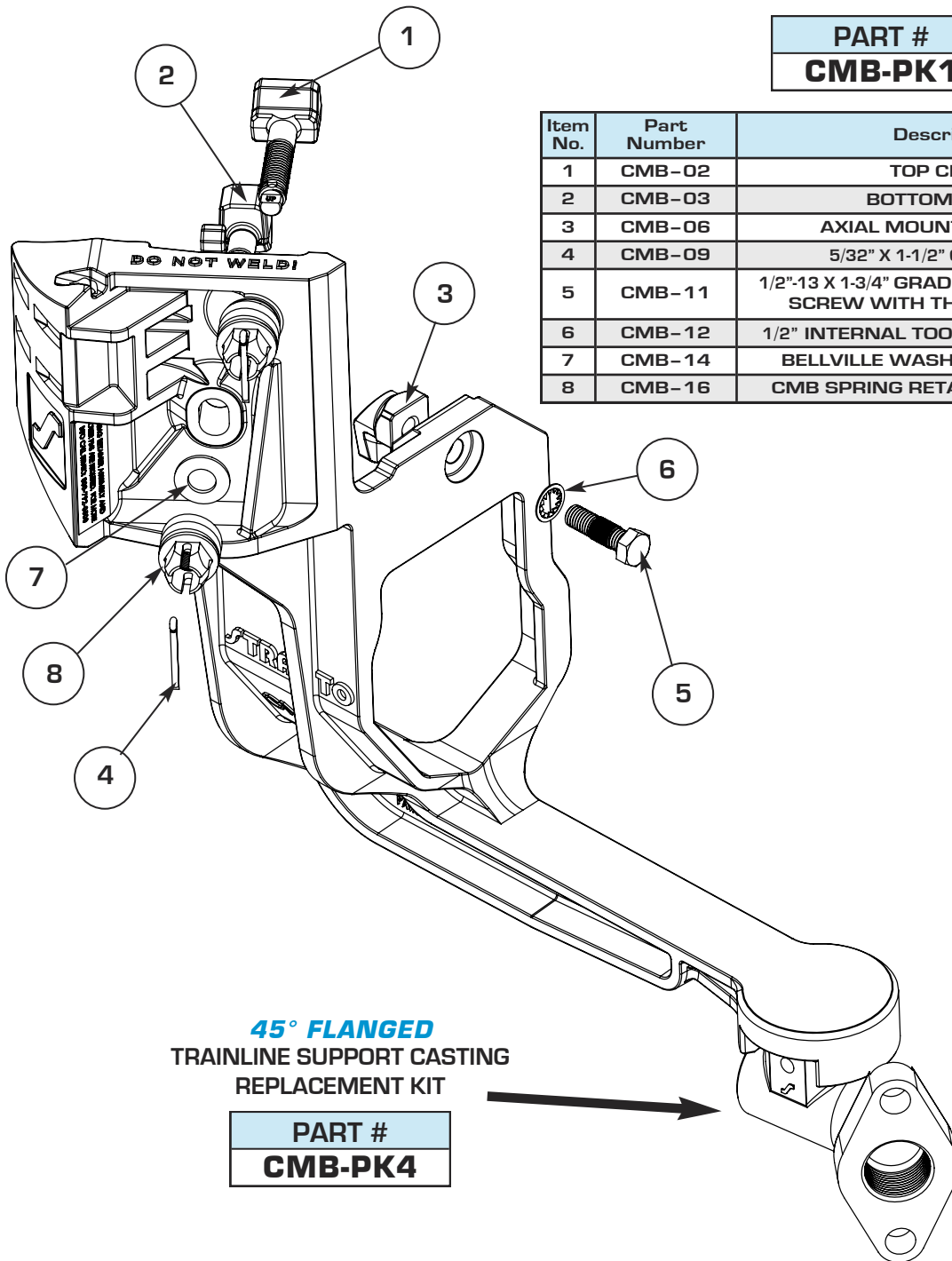
INSTALLATION HARDWARE KITS

REPLACEMENT HARDWARE FOR CMBA-45

INSTALLATION HARDWARE REPLACEMENT KIT

PART #
CMB-PK1

| Item No. | Part Number | Description | QTY. |
|----------|-------------|-----------------------------------------------------------------|------|
| 1 | CMB-02 | TOP CLAMP | 1 |
| 2 | CMB-03 | BOTTOM CLAMP | 1 |
| 3 | CMB-06 | AXIAL MOUNTING CLAMP | 1 |
| 4 | CMB-09 | 5/32" X 1-1/2" COTTER PIN | 2 |
| 5 | CMB-11 | 1/2"-13 X 1-3/4" GRADE 8 HEX HEAD CAP SCREW WITH THREAD COATING | 1 |
| 6 | CMB-12 | 1/2" INTERNAL TOOTH LOCK WASHER | 1 |
| 7 | CMB-14 | BELLVILLE WASHER (1914 LB FLAT) | 2 |
| 8 | CMB-16 | CMB SPRING RETAINER ASSEMBLY | 2 |





COUPLER MOUNTED BRACKET - MODIFIED (CMBA-M)

AAR Approved S-4021, S-427 and Other Long Shank Coupler Applications

Rule 6 AAR Job Code: 1632

For changes to arrangement beyond allowable per Rule 6, car owner approval must be obtained to install CMB. Contact Strato for an assessment of compatibility by specific car class and series. Care must be taken to ensure the CMB cannot come into contact with any carbody components - Call Customer Service at 1.800.792.0500 for installation instructions.



TOOLS REQUIRED FOR INSTALLATION

- Ratchet
- 15/16" Deep Socket
- 3/4" Socket
- Flat Screwdriver
- Pliers or other tool suitable for bending cotter pins

PART #

CMBA-M

**THREADED TRAINLINE
SUPPORT CASTING**

BENEFITS COMPARED TO TYPICAL END-OF-CAR ARRANGEMENTS

- Can be installed in approximately 15 minutes without welding or jacking of the car.
- Clamps directly to the coupler and keeps the trainline support casting in a fixed position in relation to the coupler, thus reducing stress on gladhand connections and preventing hose separations.

The trainline support casting has been modified to fit cars with limited clearance with car body components.

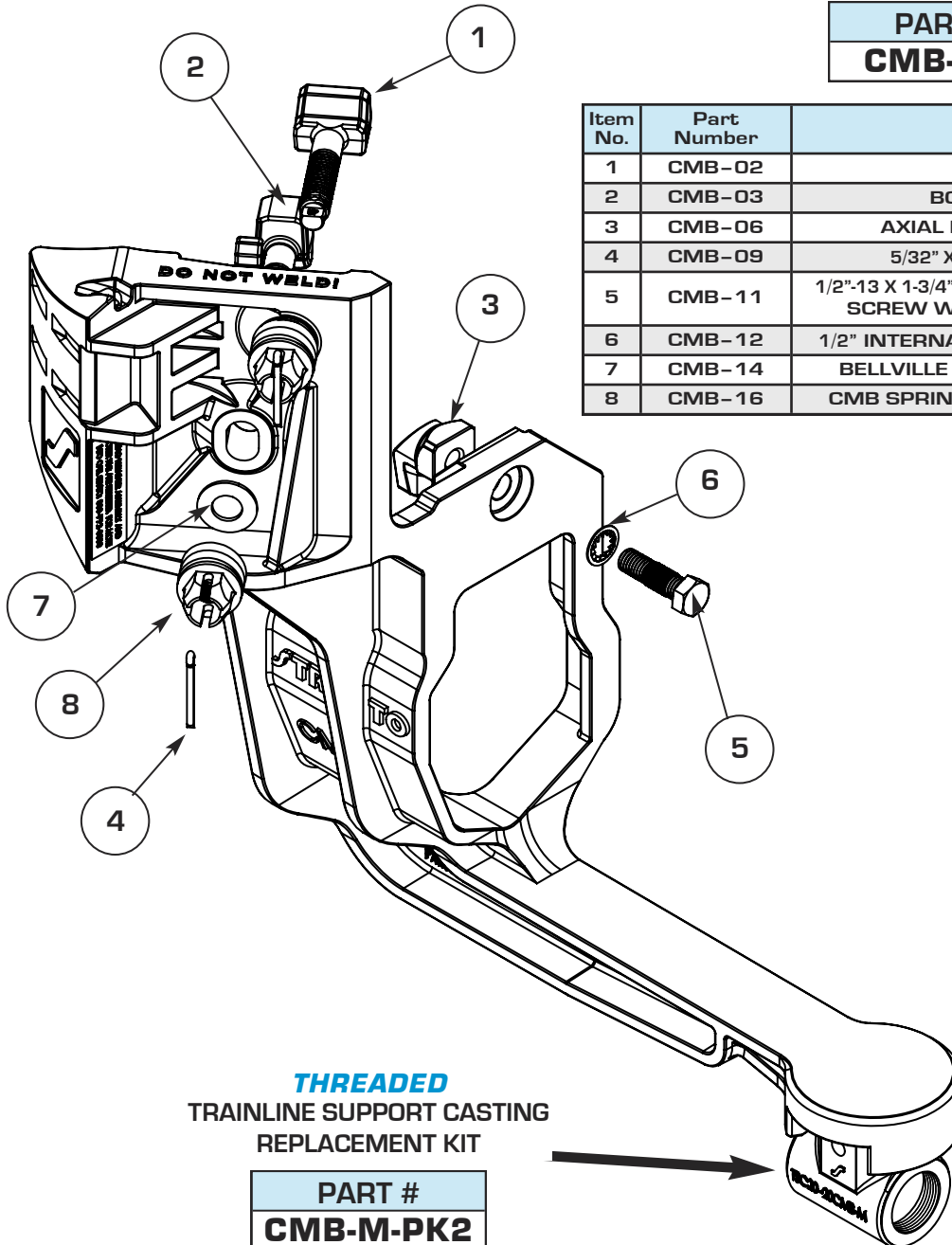
INSTALLATION HARDWARE KITS

REPLACEMENT HARDWARE FOR CMBA-M

INSTALLATION HARDWARE REPLACEMENT KIT

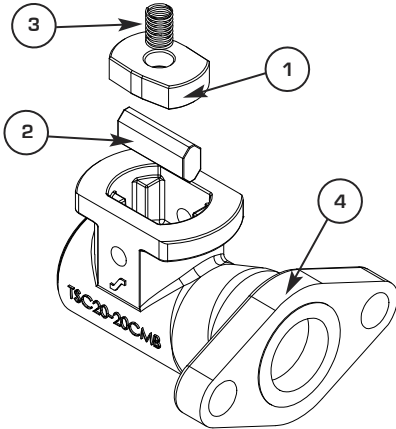
PART #
CMB-PK1

| Item No. | Part Number | Description | QTY. |
|----------|-------------|-----------------------------------------------------------------|------|
| 1 | CMB-02 | TOP CLAMP | 1 |
| 2 | CMB-03 | BOTTOM CLAMP | 1 |
| 3 | CMB-06 | AXIAL MOUNTING CLAMP | 1 |
| 4 | CMB-09 | 5/32" X 1-1/2" COTTER PIN | 2 |
| 5 | CMB-11 | 1/2"-13 X 1-3/4" GRADE 8 HEX HEAD CAP SCREW WITH THREAD COATING | 1 |
| 6 | CMB-12 | 1/2" INTERNAL TOOTH LOCK WASHER | 1 |
| 7 | CMB-14 | BELLVILLE WASHER (1914 LB FLAT) | 2 |
| 8 | CMB-16 | CMB SPRING RETAINER ASSEMBLY | 2 |



TRAINLINE SUPPORT CASTING REPLACEMENT KITS

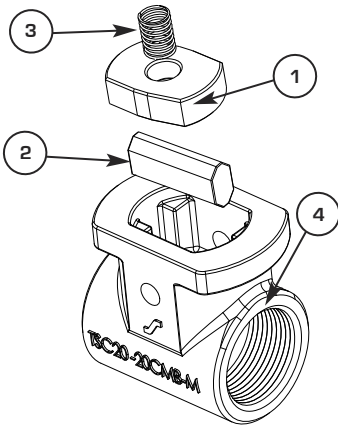
OPTION 1 – TRAINLINE SUPPORT CASTING WITH FLANGE



PART #
CMB-PK2

| Item No. | Part Number | Description | QTY. |
|----------|-------------|-------------------------------------|------|
| 1 | CMB-04 | SWIVEL LIFTING KEY | 1 |
| 2 | CMB-05 | KEY LIFTER | 1 |
| 3 | CMB-08 | COMPRESSION SPRING | 1 |
| 4 | TSC20-20CMB | TRAINLINE SUPPORT CASTING W/ FLANGE | 1 |

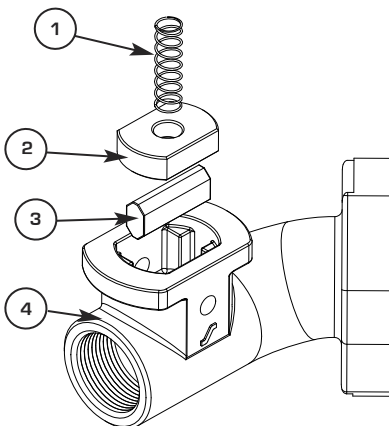
OPTION 2 – TRAINLINE SUPPORT CASTING WITHOUT FLANGE



PART #
CMB-M-PK2

| Item No. | Part Number | Description | QTY. |
|----------|---------------|--------------------------------------|------|
| 1 | CMB-04 | SWIVEL LIFTING KEY | 1 |
| 2 | CMB-05 | KEY LIFTER | 1 |
| 3 | CMB-08 | COMPRESSION SPRING | 1 |
| 4 | TSC20-20CMB-M | TRAINLINE SUPPORT CASTING W/O FLANGE | 1 |

OPTION 3 – 45° TRAINLINE SUPPORT CASTING WITH FLANGE



PART #
CMB-PK4

| Item No. | Part Number | Description | QTY. |
|----------|----------------|------------------------------------------------|------|
| 1 | CMB-08 | COMPRESSION SPRING | 1 |
| 2 | CMB-04 | SWIVEL LIFTING KEY | 1 |
| 3 | CMB-05 | KEY LIFTER | 1 |
| 4 | TSC20-20CMB-45 | TRAINLINE SUPPORT CASTING WITH THREADED FLANGE | 1 |



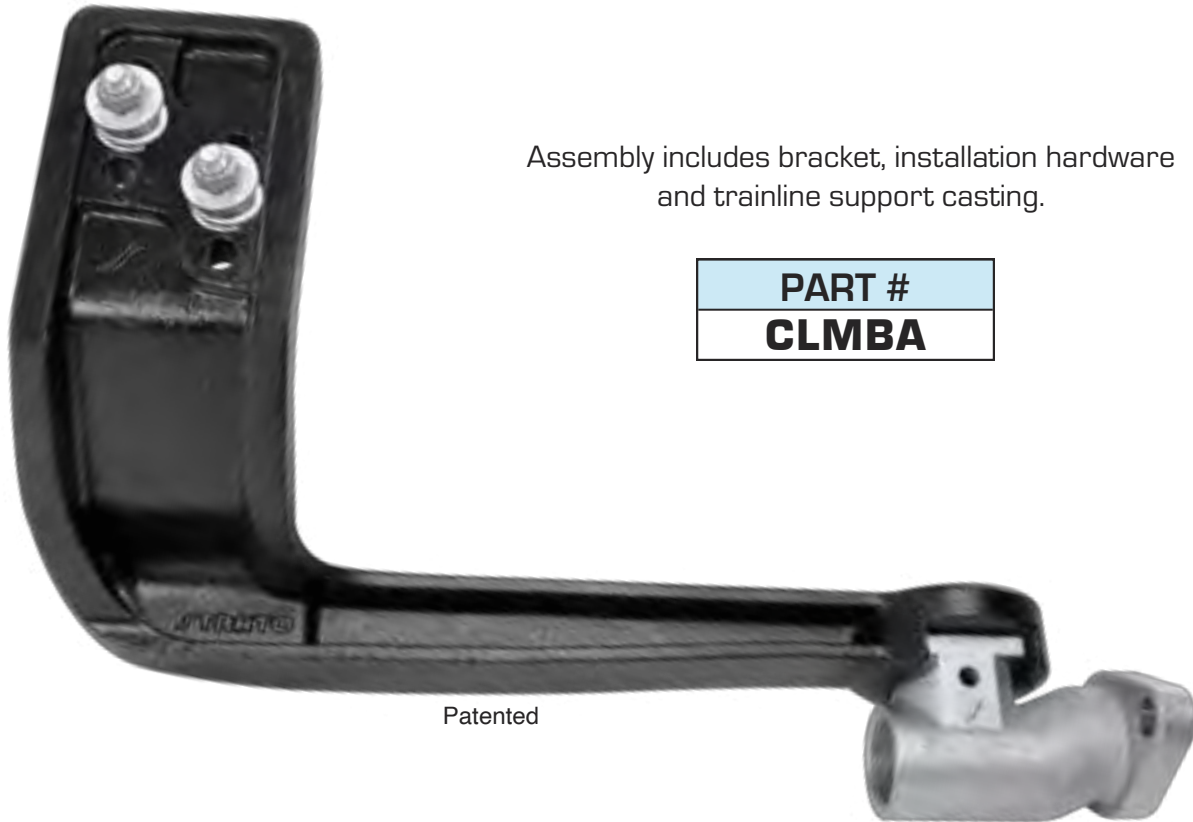
COUPLER LUG MOUNTED BRACKET (CLMB)

AAR Approved S-4021, S-427 and Other Long Shank Coupler Applications

For use on couplers with a lug mount only.

For changes to arrangement beyond allowable per Rule 6, car owner approval must be obtained to install CLMB. Contact Strato for an assessment of compatibility by specific car class and series. Care must be taken to ensure the CLMB cannot come into contact with any carbody components - Call Customer Service at 1.800.792.0500 for installation instructions.

**The Coupler Lug Mounted Bracket may be used on couplers with a lug.
Couplers with a lug include: EF511LCE, E69LCE, SBE67LDE and SBE69LCE.**



BENEFITS COMPARED TO TYPICAL END-OF-CAR ARRANGEMENTS

- Easy to install
- Mounts directly to the lug cast into the coupler
- Reduces the potential for car body interference
- Tested to Exceed the AAR S-4021 Requirements



100 New England Avenue • Piscataway, NJ 08854

END OF CAR

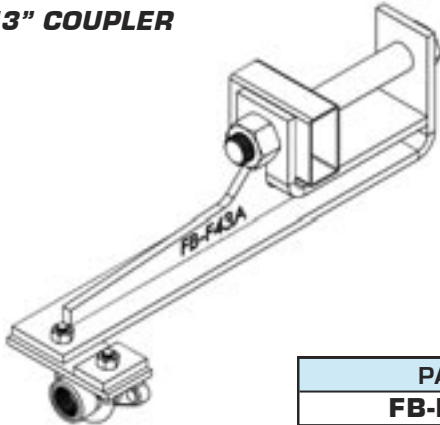


BRACKETS FOR F-SHANK COUPLERS

AAR S-4021

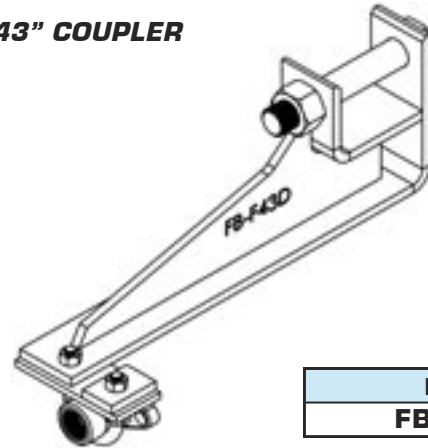
FIXED BRACKET FOR 43" & 45" COUPLERS

43" COUPLER



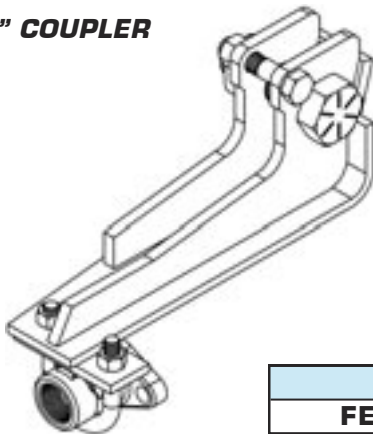
PART #
FB-F43AK

43" COUPLER



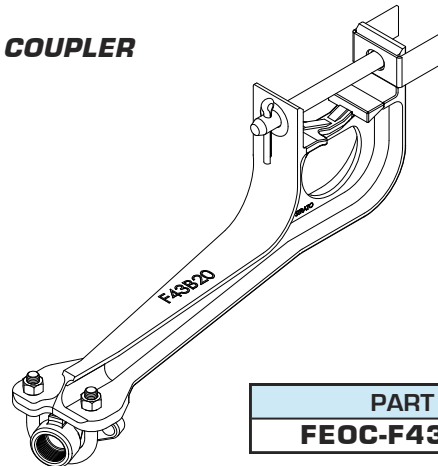
PART #
FB-F43DK

43" COUPLER



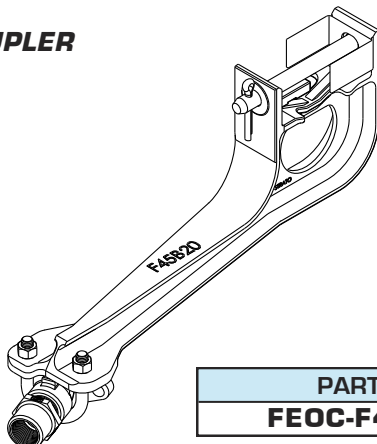
PART #
FEOC-F43EK

43" COUPLER



PART #
FEOC-F43B20K

45" COUPLER



PART #
FEOC-F45BK



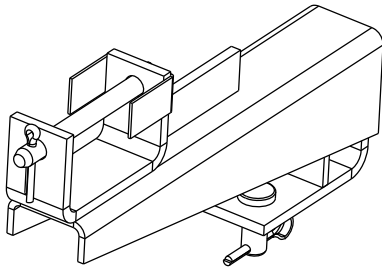
www.stratoinc.com

BRACKETS FOR F-SHANK COUPLERS

AAR S-4003

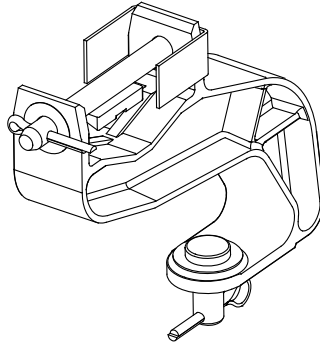
PIVOT BRACKETS FOR 53" & 60" COUPLERS

53" COUPLER



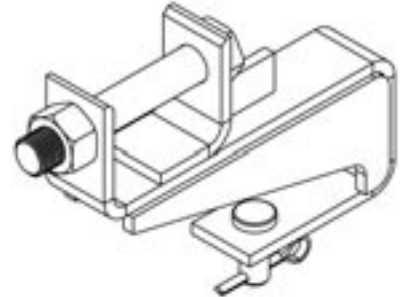
PART #
FE0C-PB13K

60" COUPLER



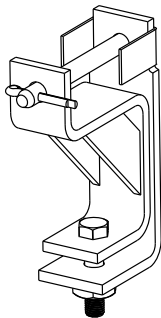
PART #
FE0C-PBK

60" COUPLER

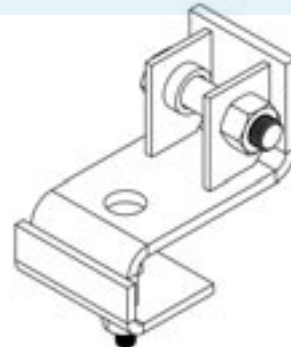


PART #
FE0C-PBSNK

FOR 60" COUPLERS WHERE CLEARANCE BEHIND BRACKET IS LIMITED



PART #
EOC-PB36K



PART #
EOC-PBFEK



PART #
EOC-PBMFK



PART #
EOC-PBVMK

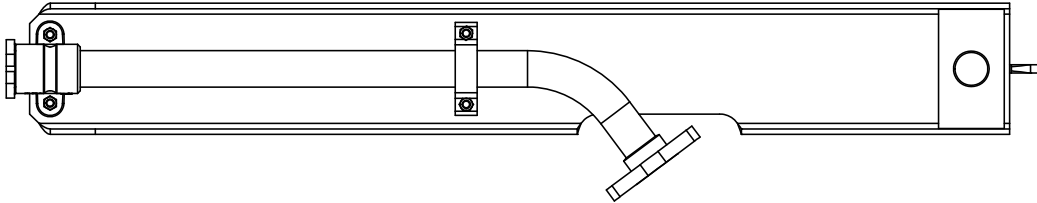


BRACKETS FOR F-SHANK COUPLERS

AAR S-4003

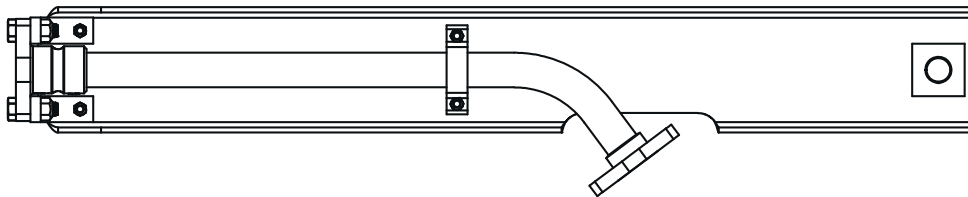
PIPE AND CHANNEL ASSEMBLIES

AAR S-4003 2005 REVISION



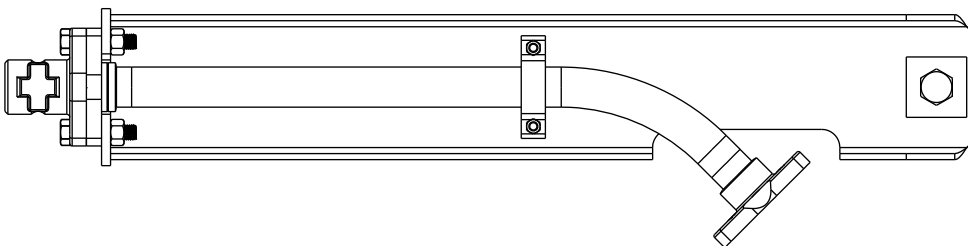
PART #
EOC-CP60AK

TO BE USED AS AN UPGRADE FROM AAR S-4003 2002 REVISION

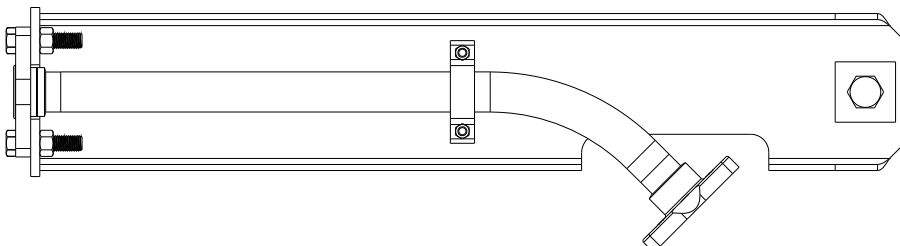


PART #
EOC-CP4003X

FOR 60" COUPLERS WHERE CLEARANCE BEHIND THE BRACKET IS LIMITED



PART #
EOC-CP36CK

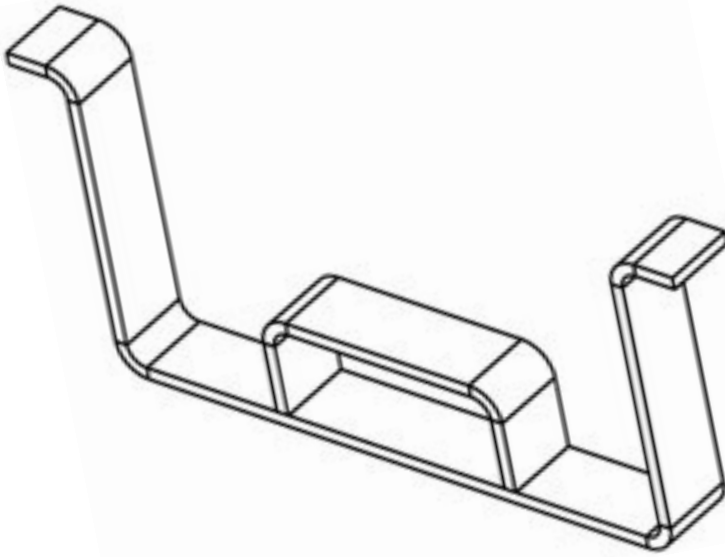


PART #
EOC-CP36AK

BRACKETS FOR F-SHANK COUPLERS

AAR S-4003

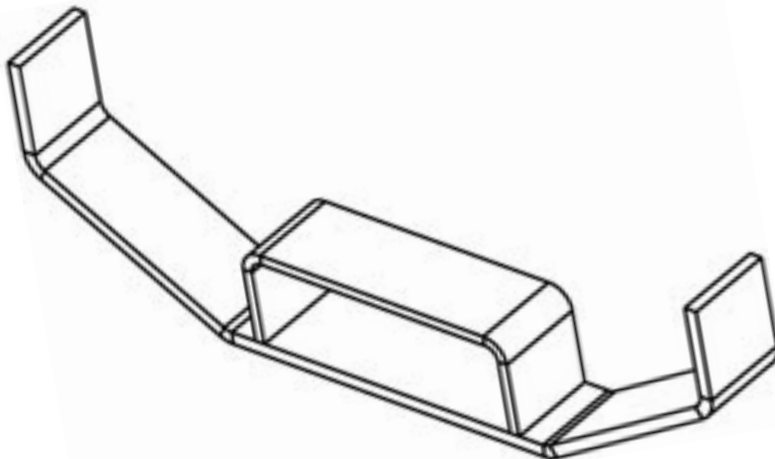
CHANNEL SUPPORTS



| |
|---------------------|
| PART # |
| EOC-SB6010AK |

FOR 60" COUPLERS WHERE CLEARANCE BEHIND THE BRACKET IS LIMITED

FOR USE WITH 1-1/4" OR 1-1/2" END COCK

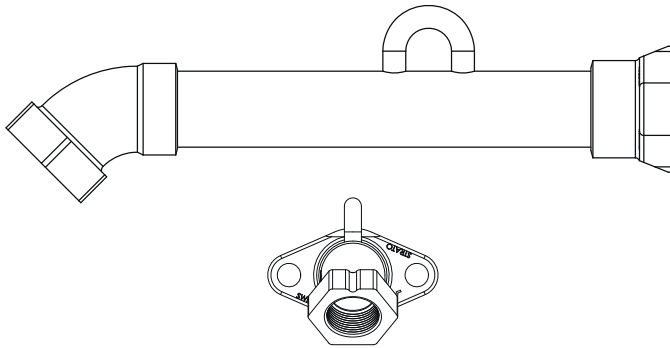


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| PART # |
| EOC-SBVMK |

UNIVERSAL TROLLEY ARRANGEMENTS

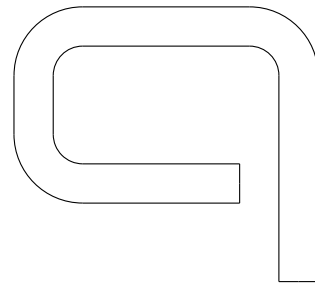
AAR S-427

TROLLEY PIPE ASSEMBLY



PART #
TPA-FT45TF

TROLLEY FRONT SUPPORT FOR
F-SHANK COUPLER



PART #
UTFS

UNIVERSAL TROLLEY ROD



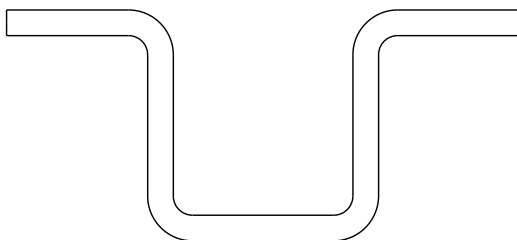
PART #
UTR

TROLLEY REAR SUPPORT



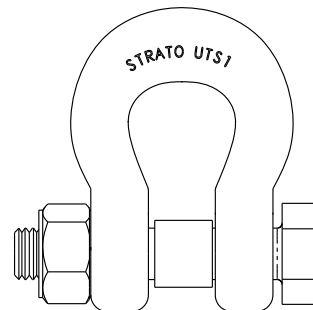
PART #
UTRS

TROLLEY FRONT SUPPORT FOR
E-SHANK COUPLER



PART #
TFS-1

UNIVERSAL TROLLEY SHACKLE

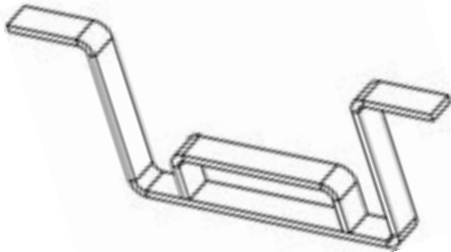


PART #
UTS1

CENTER OF CAR CUSHIONING

FOR CARS WITH 60" F-SHANK COUPLER

CHANNEL SUPPORT



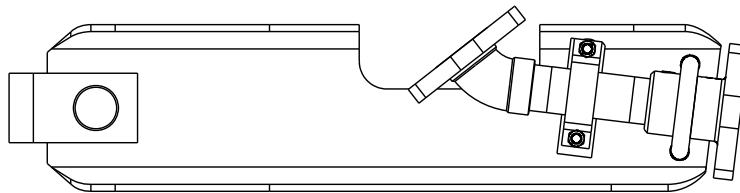
PART #
TLB743K

BACK SUPPORT WELDMENT



PART #
TLB723K

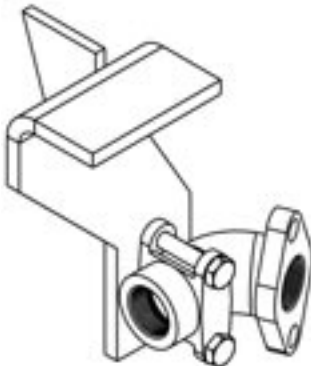
PIPE & CHANNEL ASSEMBLY



PART #
TLB763K

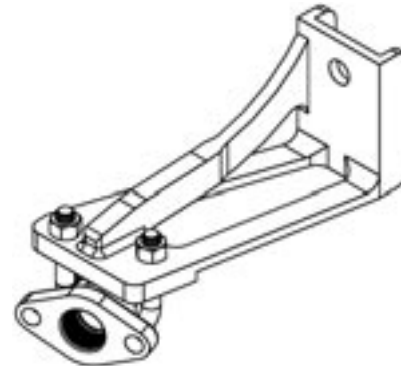
ADDITIONAL BRACKETS

FOR CARS WITH E-SHANK OR
43" F-SHANK COUPLER AAR S-426



PART #
TLB2A

BRACKET FOR E-SHANK COUPLER AAR S-4021

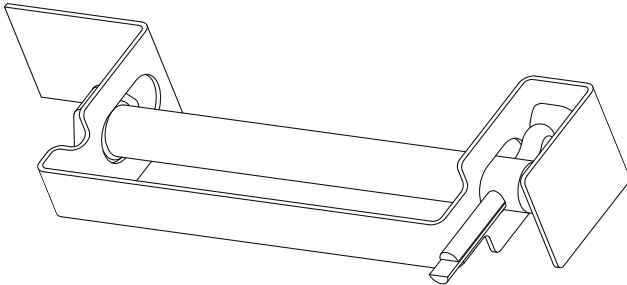


PART #
FEOC-EBA18K

VERTICAL PIN RETAINER KITS

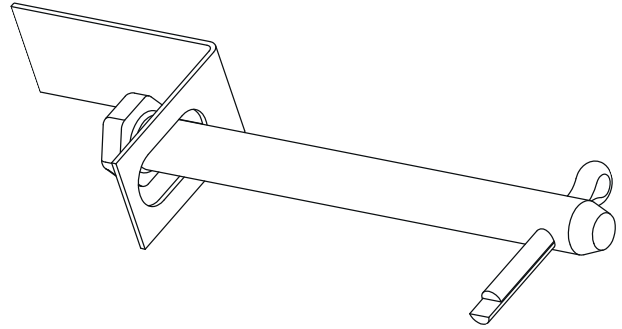
MEETS AAR M-119 SPECIFICATIONS AND RULE 17 REQUIREMENTS

PIN RETAINER KIT, RETAINER BOTH ENDS



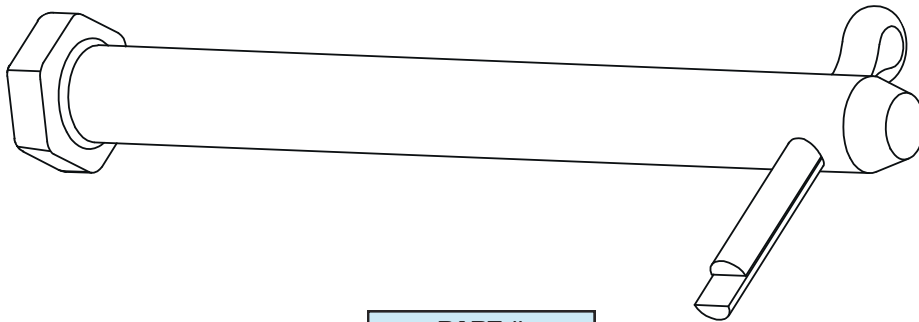
PART #
EOC-BRS3

PIN RETAINER KIT



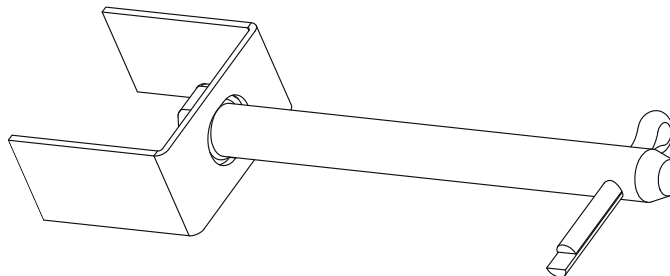
PART #
EOC-BRS

7/8" PIN ASSEMBLY



PART #
EOC-BRS2

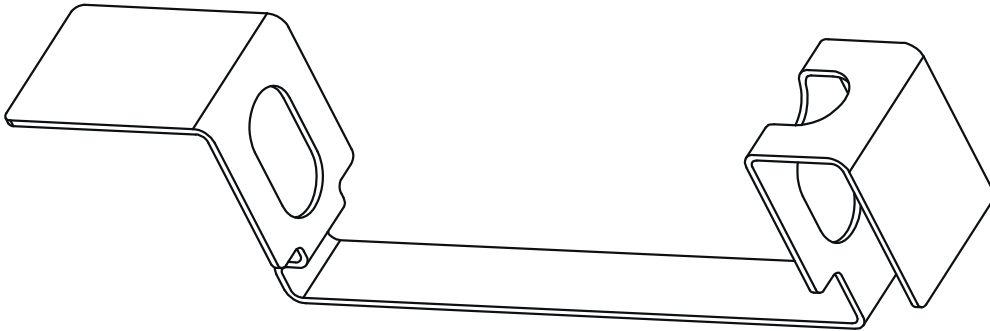
PIN RETAINER KIT, U-SHAPED RETAINER



PART #
EOC-BRS5

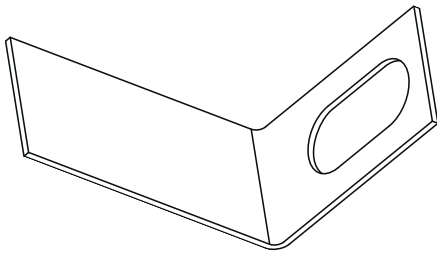
VERTICAL PIN RETAINER COMPONENTS

PIN RETAINER, BOTH ENDS



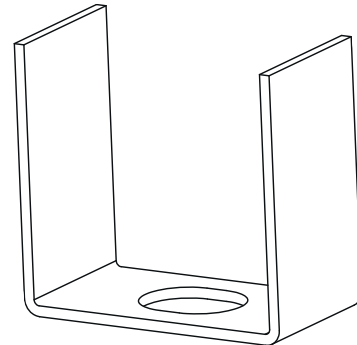
PART #
EOC-PR3

PIN RETAINER, L-SHAPED



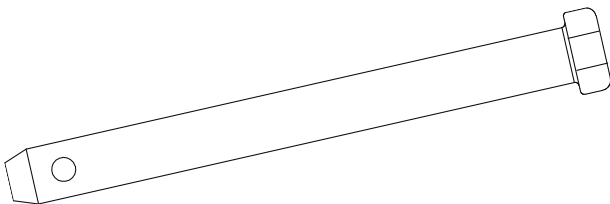
PART #
EOC-PR

PIN RETAINER, U-SHAPED



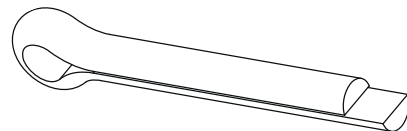
PART #
EOC-BR

7/8" - 9 PIN



PART #
H121F

COTTER PIN



PART #
H120F



100 New England Avenue • Piscataway, NJ 08854

YOKES



“E” AND “F” YOKES

HEAVY DUTY E-YOKE



| |
|-----------------|
| PART # |
| WMNY40AE |

HEAVY DUTY F-YOKE



| |
|---------------|
| PART # |
| Y45AE |

STANDARD E-YOKE

STANDARD E - YOKE



| |
|---------------|
| PART # |
| SY40AE |





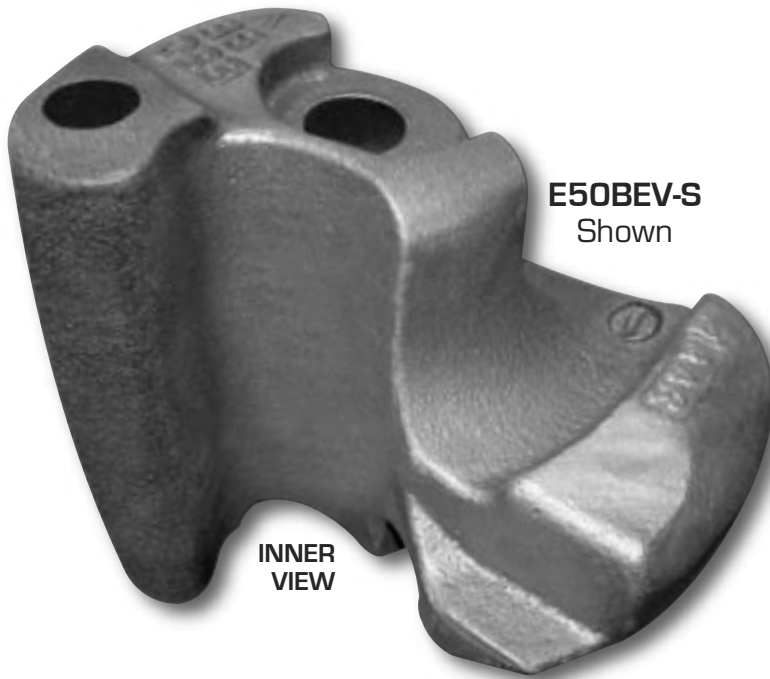
100 New England Avenue • Piscataway, NJ 08854

KNUCKLES

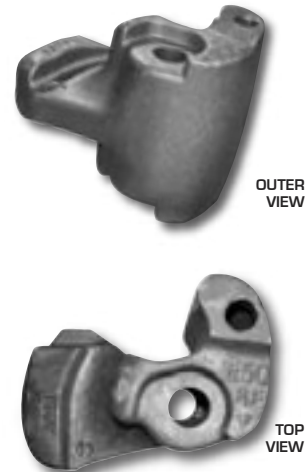


AAR M-216 E KNUCKLE

AVERAGED OVER 1 MILLION FATIGUE LIFE CYCLES DURING TESTING



Material: AAR M-201 Grade E Steel
Fits all E and E/F Couplers
AAR Catalog No. E50BEV



Available as:

12-pack: # **E50BEV-12**

24-pack: # **E50BEV-24**

Packaging surcharge may apply.

Approved by AAR Coupling System and Truck Casting Committee
per the AAR M-216 knuckle fatigue test.

OUR MANUFACTURING PROCESS ENSURES

- Optimum design and casting process
- Consistent dimensions
- Longer fatigue life
- Smoother surface finish
 - Reduces amount of stress risers
 - Minimizes crack initiation

AAR M-216 F KNUCKLE

AVERAGED OVER 1 MILLION FATIGUE LIFE CYCLES DURING TESTING

Material: AAR M-201 Grade E Steel
Fits F Couplers
AAR Catalog No. F51AEV



Available as:

12-pack: # **F51AEV-12**

24-pack: # **F51AEV-24**

Packaging surcharge may apply.

Approved by AAR Coupling System and Truck Casting Committee
per the AAR M-216 knuckle fatigue test.

OUR MANUFACTURING PROCESS ENSURES

Optimum design and casting process

Consistent dimensions

Longer fatigue life

Smoother surface finish

- Reduces amount of stress risers
- Minimizes crack initiation



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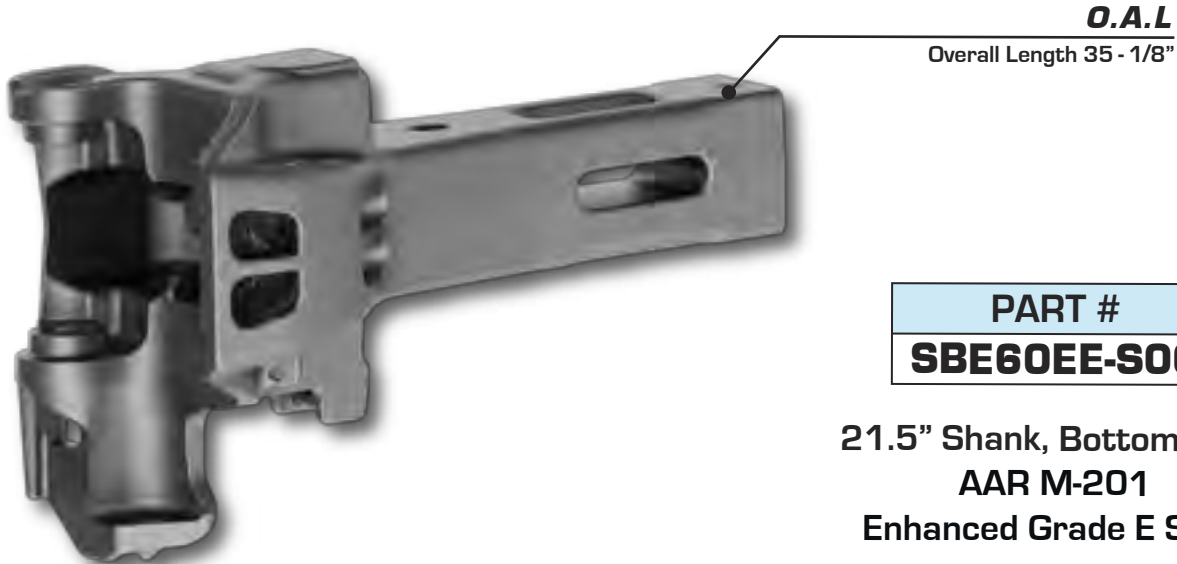
COUPLERS



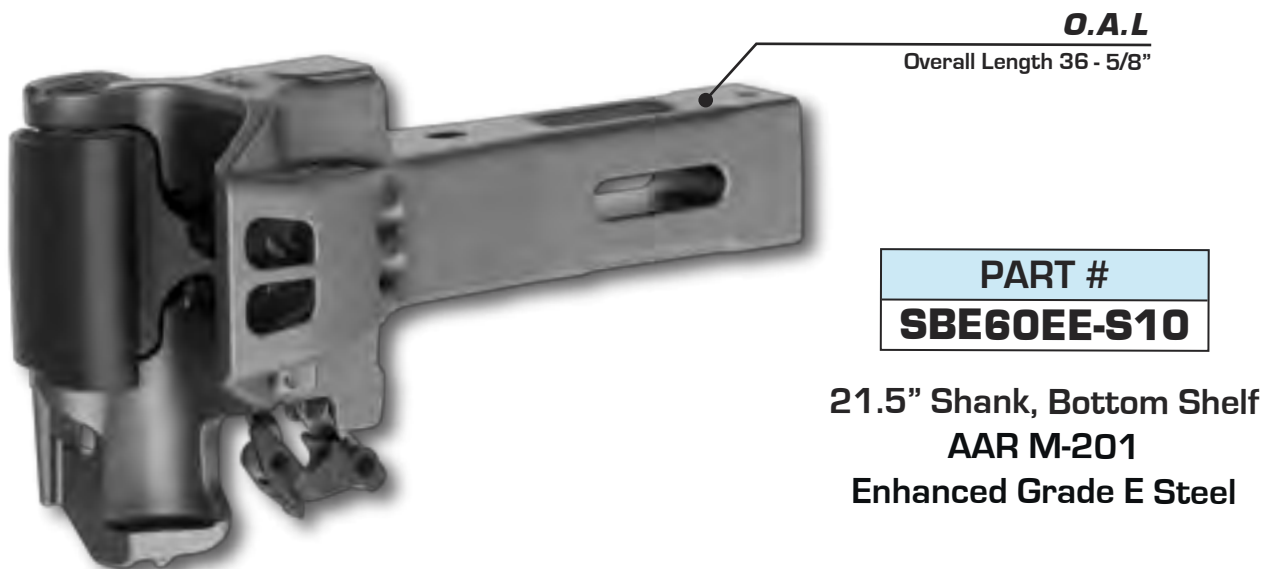
E COUPLERS

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

33-1/2" E COUPLER BODY



33-1/2" E COUPLER ASSEMBLY



Assemblies Include:

• Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

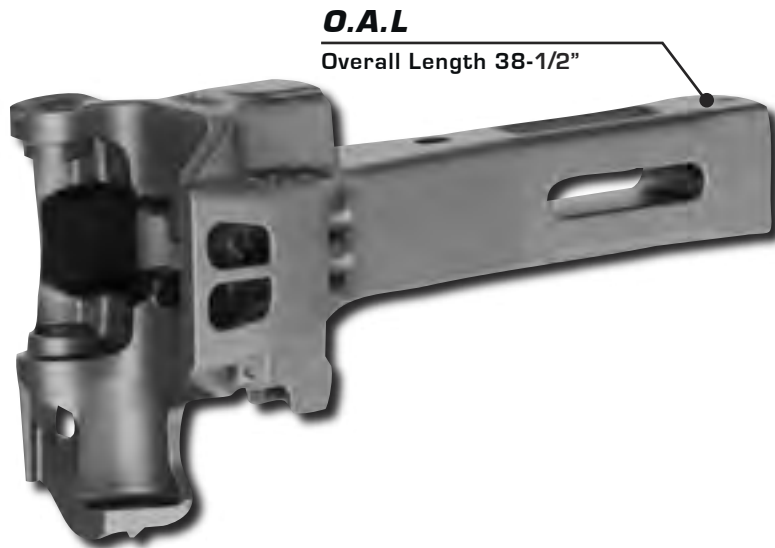
All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

E COUPLERS

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

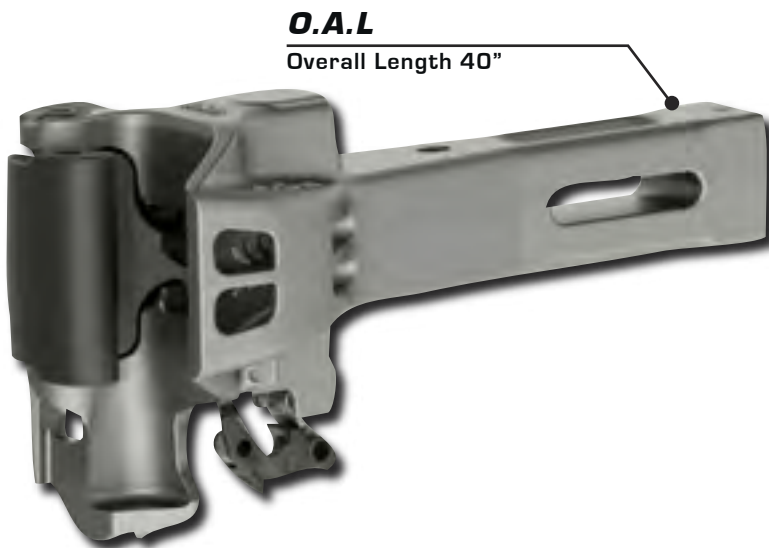
37" E COUPLER BODY



| |
|--------------------|
| PART # |
| SBE67DE-S00 |

25" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel

37" E COUPLER ASSEMBLY



| |
|--------------------|
| PART # |
| SBE67DE-S10 |

25" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel

Assemblies Include:

Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

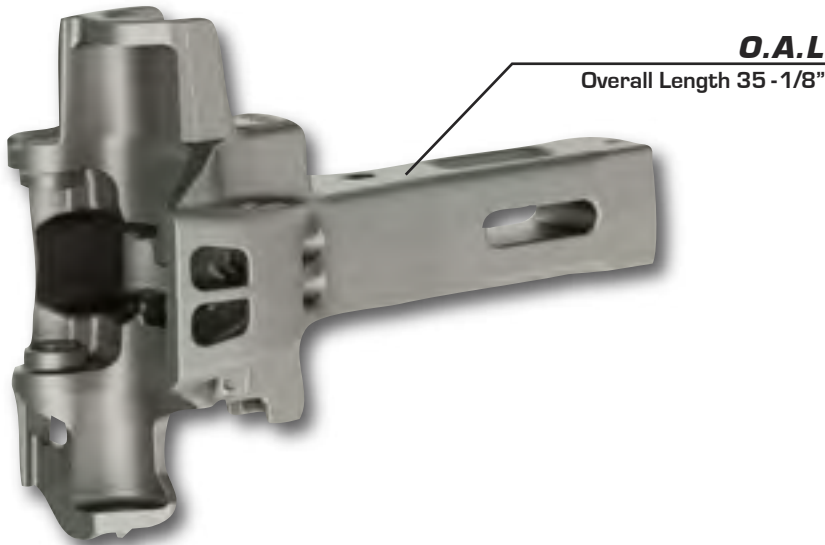
All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

E COUPLERS

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

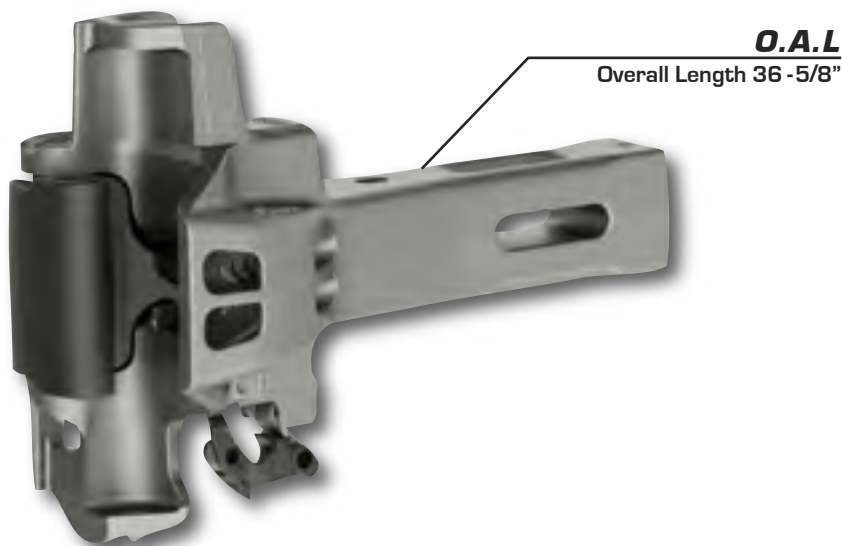
33-1/2" E COUPLER BODY



| |
|-------------------|
| PART # |
| SE60EE-S00 |

22-1/2" Shank, Top and
Bottom Shelf
AAR M-201
Enhanced Grade E Steel

33-1/2" E COUPLER ASSEMBLY



| |
|-------------------|
| PART # |
| SE60EE-S10 |

22-1/2" Shank, Top and
Bottom Shelf
AAR M-201
Enhanced Grade E Steel

Assemblies Include:

• Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

E/F COUPLERS

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

43" E/F COUPLER BODY

O.A.L

Overall Length 49 - 7/8"



PART #

EF511CE-S00

31" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel

43" E/F COUPLER ASSEMBLY

O.A.L

Overall Length 51 - 3/8"



PART #

EF511CE-S10

31" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel

Assemblies Include:

• Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

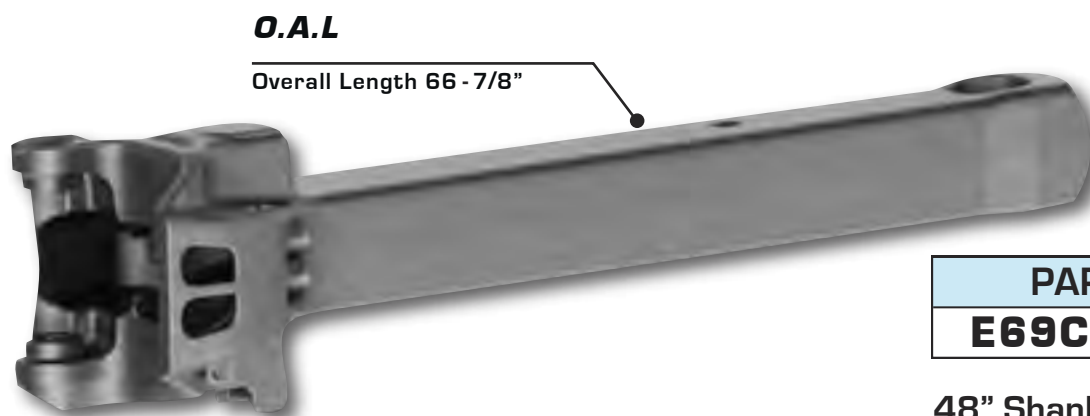
All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

E/F COUPLERS

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

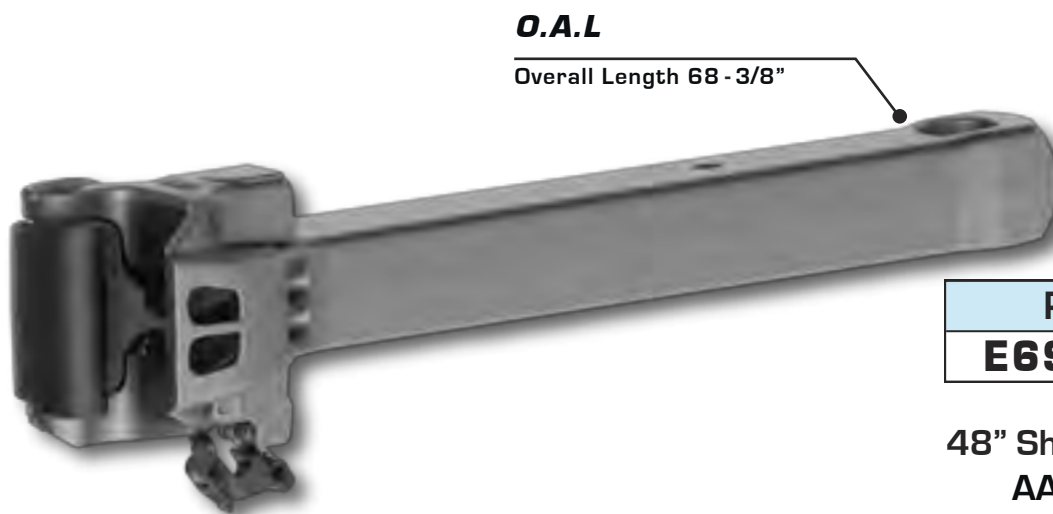
60" E/F COUPLER BODY



| |
|------------------|
| PART # |
| E69CE-S00 |

48" Shank, No Shelf
AAR M-201
Enhanced Grade E Steel

60" E/F COUPLER ASSEMBLY



| |
|------------------|
| PART # |
| E69CE-S10 |

48" Shank, No Shelf
AAR M-201
Enhanced Grade E Steel

Assemblies Include:

• Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

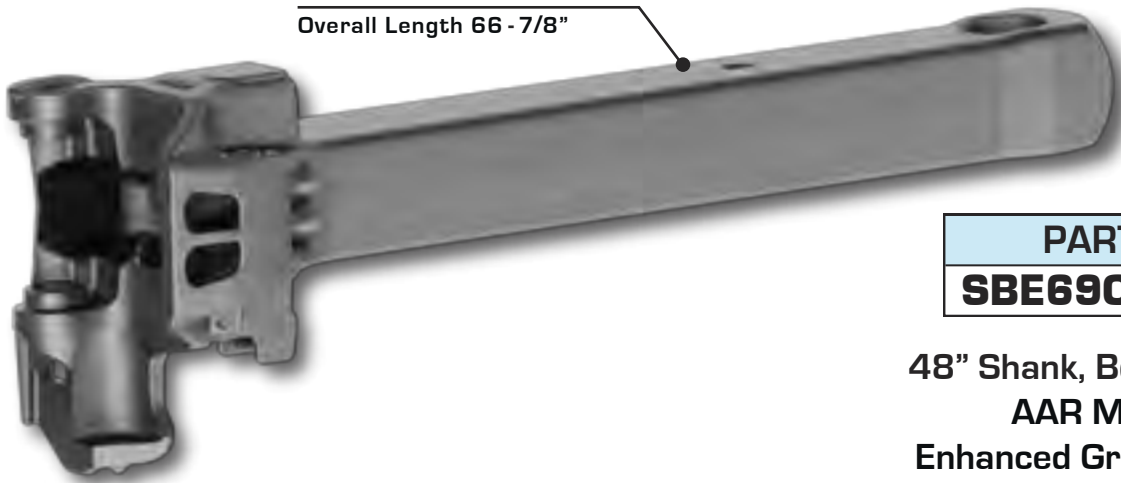
E/F COUPLERS

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

60" E/F COUPLER BODY

O.A.L

Overall Length 66 - 7/8"



PART #

SBE69CE-S00

48" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel

60" E/F COUPLER ASSEMBLY

O.A.L

Overall Length 68 - 3/8"



PART #

SBE69CE-S10

48" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel

Assemblies Include:

• Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

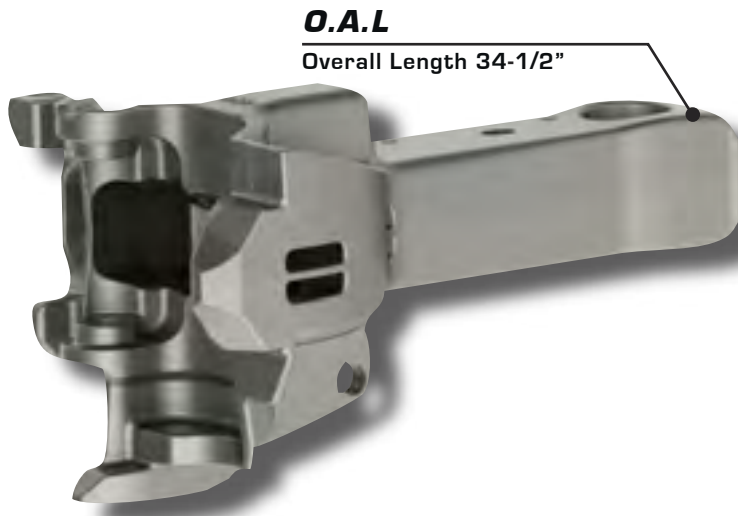
All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

F COUPLER

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

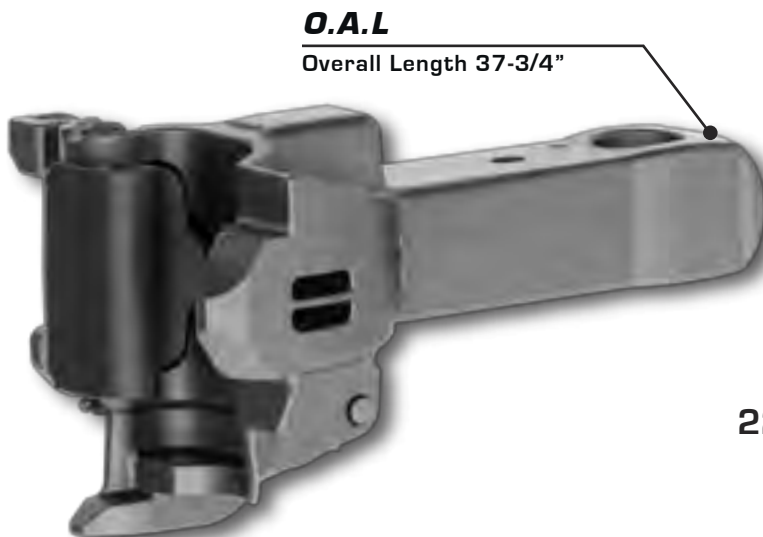
29-1/4" F COUPLER BODY



| |
|------------------|
| PART # |
| F70DE-S00 |

22-1/2" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel

29-1/4" F COUPLER ASSEMBLY



| |
|------------------|
| PART # |
| F70DE-S10 |

22-1/2" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel

Assemblies Include:

Coupler • Knuckle • Lock • Rotor • Thrower • Rotary Lock-Lift Assembly • C-10 Pin & Cotter Pin

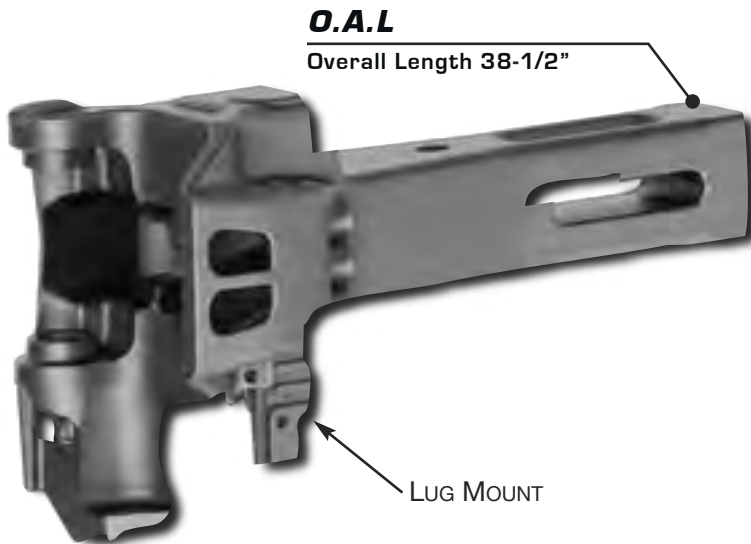
All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

E COUPLERS WITH LUG MOUNT

USED WITH COUPLER LUG MOUNTED BRACKET FOR END OF CAR ARRANGEMENTS

37" E COUPLER BODY WITH LUG MOUNT

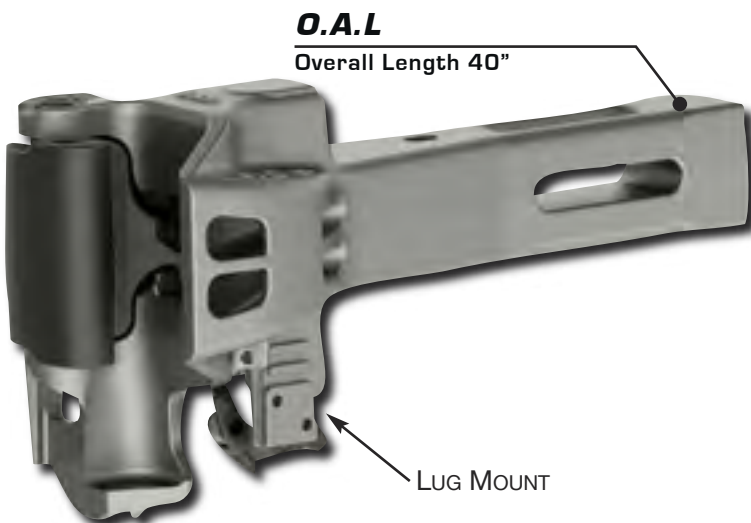


| |
|---------------------|
| PART # |
| SBE67LDE-S00 |

25" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel



37" E COUPLER ASSEMBLY WITH LUG MOUNT



| |
|---------------------|
| PART # |
| SBE67LDE-S10 |

25" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel



Assemblies Include:

Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

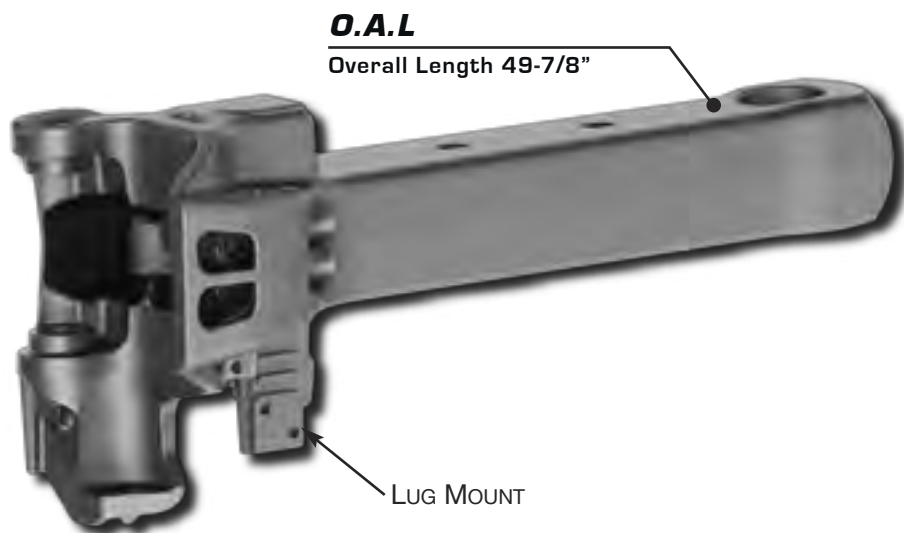
All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

E/F COUPLERS WITH LUG MOUNT

USED WITH COUPLER LUG MOUNTED BRACKET FOR END OF CAR ARRANGEMENTS

43" E/F COUPLER BODY WITH LUG MOUNT

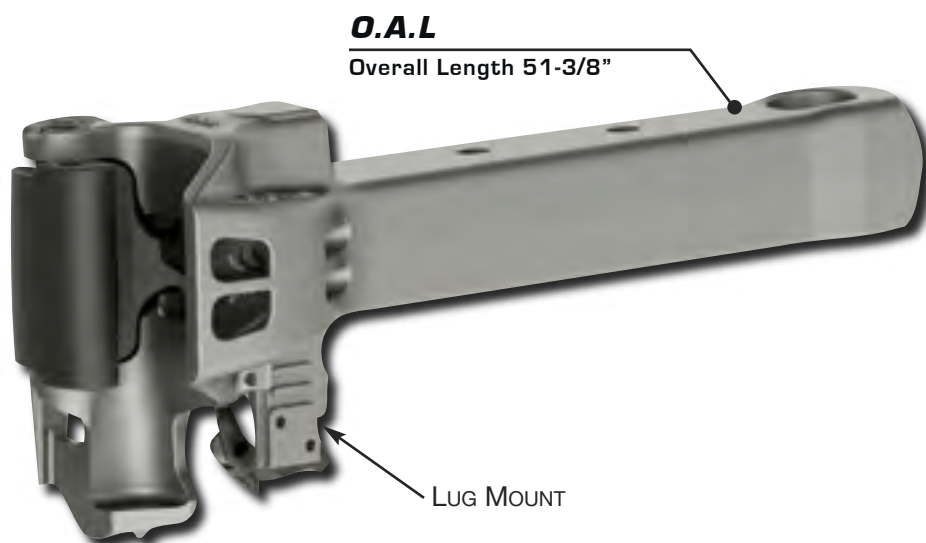


| |
|---------------------|
| PART # |
| EF511LCE-S00 |

31" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel



43" E/F COUPLER ASSEMBLY WITH LUG MOUNT



| |
|---------------------|
| PART # |
| EF511LCE-S10 |

31" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel



Assemblies Include:

Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

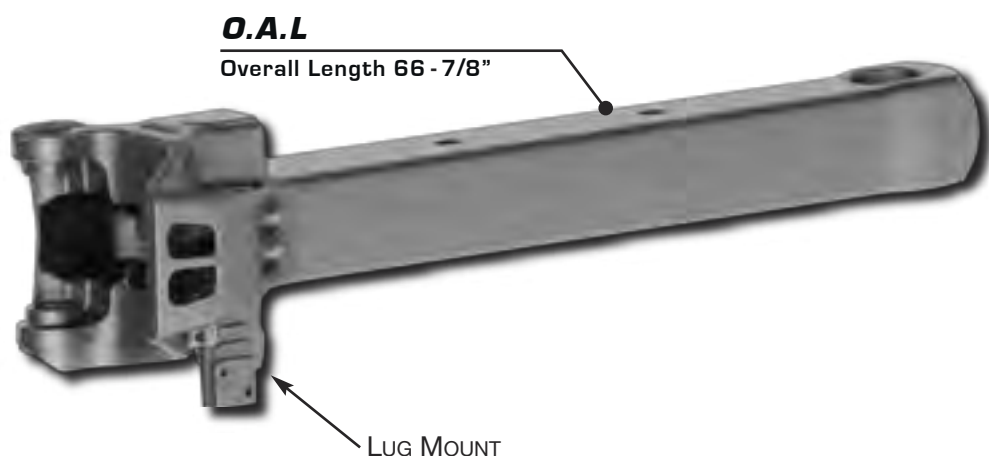
All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

E/F COUPLERS WITH LUG MOUNT

USED WITH COUPLER LUG MOUNTED BRACKET FOR END OF CAR ARRANGEMENTS

60" E/F COUPLER BODY WITH LUG MOUNT

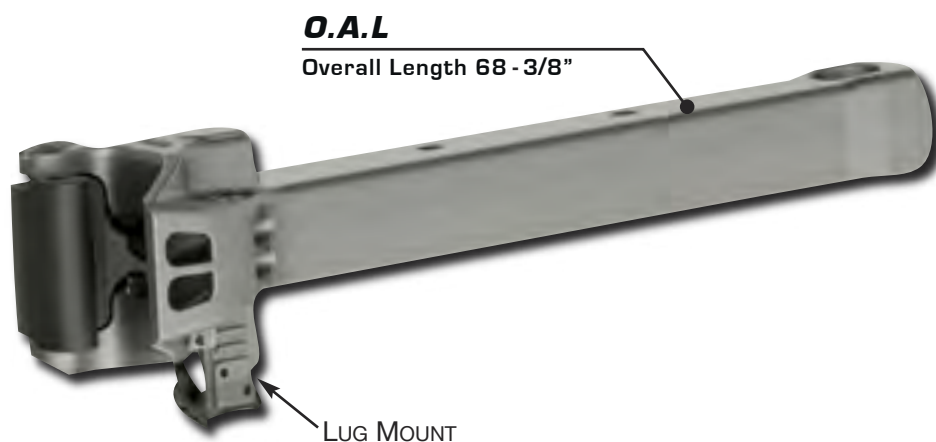


| |
|-------------------|
| PART # |
| E69LCE-S00 |

48" Shank, No Shelf
AAR M-201
Enhanced Grade E Steel



60" E/F COUPLER ASSEMBLY WITH LUG MOUNT



| |
|-------------------|
| PART # |
| E69LCE-S10 |

48" Shank, No Shelf
AAR M-201
Enhanced Grade E Steel



Assemblies Include:

Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

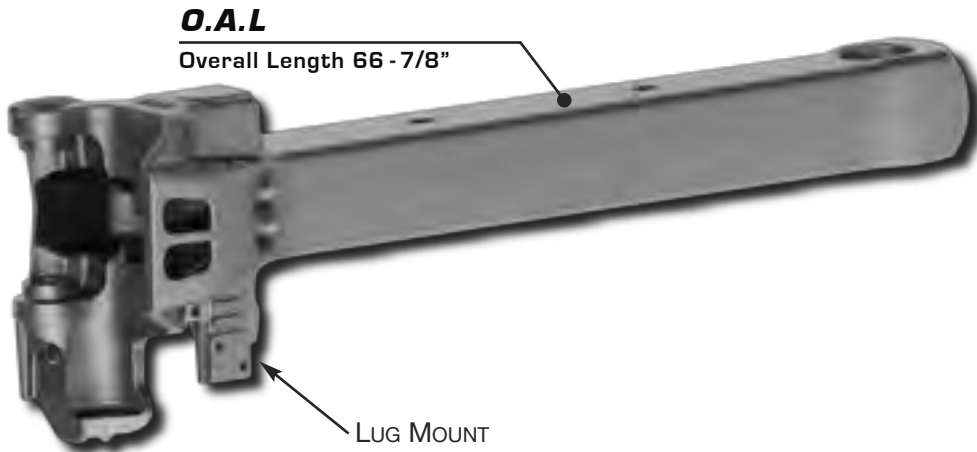
All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.

E/F COUPLERS WITH LUG MOUNT

USED WITH COUPLER LUG MOUNTED BRACKET FOR END OF CAR ARRANGEMENTS

60" E/F COUPLER BODY WITH LUG MOUNT

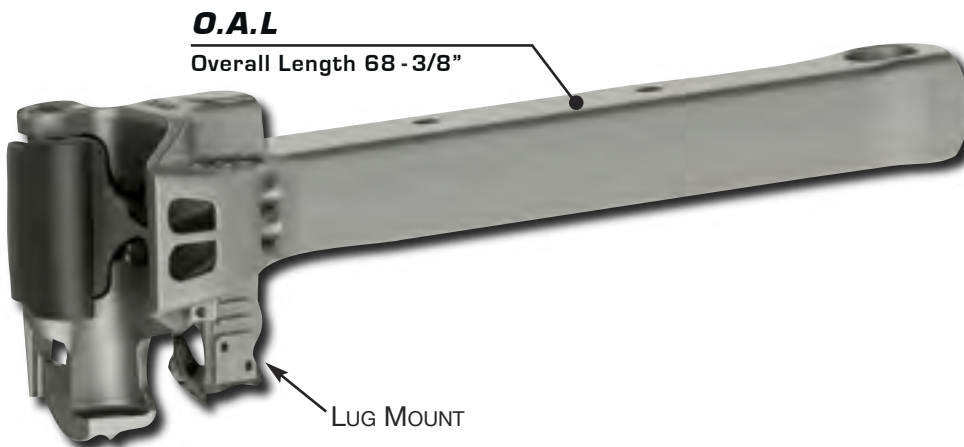


PART #
SBE69LCE-S00

48" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel



60" E/F COUPLER ASSEMBLY WITH LUG MOUNT



PART #
SBE69LCE-S10

48" Shank, Bottom Shelf
AAR M-201
Enhanced Grade E Steel



Assemblies Include:

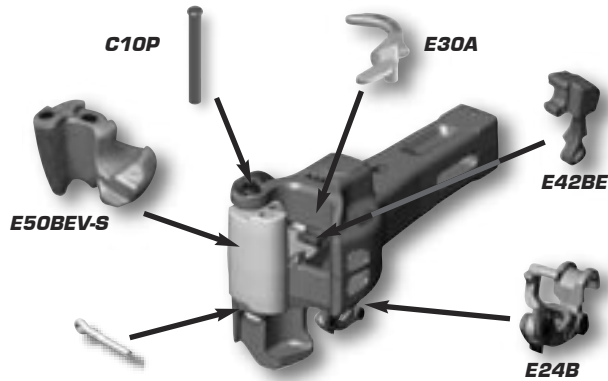
Coupler • Knuckle • Lock • Thrower • Lock-Lift Assembly • C-10 Pin & Cotter Pin

All products meet or exceed AAR Specifications

Additional coupler types may be available. Contact customer service at 1-800-792-0500 for details.-

COUPLERS ASSEMBLIES

WITH THEIR COMPONENTS

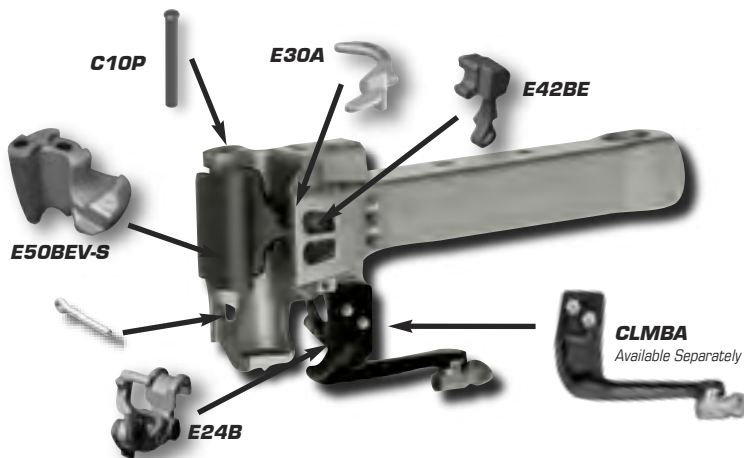
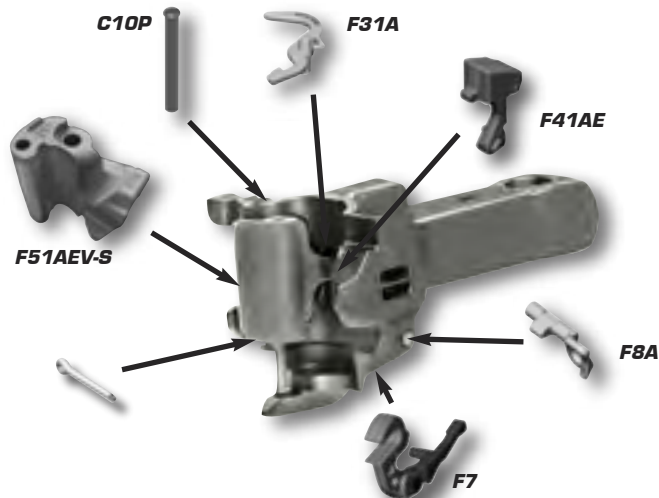


E & E/F Coupler Assemblies Include:

- Coupler Body •
- E Knuckle •
- Lock •
- Knuckle Thrower •
- Lock-Lift Assembly •
- C-10 Pin •
- Cotter Pin •

F Coupler Assemblies Include:

- Coupler Body
- F Knuckle
- Lock
- Knuckle Thrower
- Rotor
- Rotary Lock-Lift Assembly
- C-10 Pin
- Cotter Pin



Coupler with Lug Assemblies Include:

- Coupler Body •
- E Knuckle •
- Lock •
- Knuckle Thrower •
- Lock-Lift Assembly •
- C-10 Pin •
- Cotter Pin •

All products meet or exceed AAR Specifications



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COUPLER COMPONENTS



E and E/F COUPLER COMPONENTS

REDUCED SLACK LOCK



PART #

E42BE

M-201 Enhanced Grade E Steel for
higher yield and tensile strength
AAR Catalog No. E42BE

Fits E & E/F Couplers

KNUCKLE THROWER



PART #

E30A

M-201 Grade B Steel
AAR Catalog No. E30A

Fits E & E/F Couplers

Advanced dimensional control during manufacture produces
a more reliable fitting and consistent interchange.

All products meet or exceed AAR Specifications

E and E/F COUPLER COMPONENTS

LOCK-LIFT ASSEMBLY



Manufactured for improved surface finish and tight tolerances to ensure proper coupler operation.

PART #

E24B

Ductile Iron
AAR Catalog No. E24B

Fits E & E/F Couplers

E & F KNUCKLE PIN



PART #

C10P

AAR Catalog No. C10

AAR M-118

All products meet or exceed AAR Specifications

F COUPLER COMPONENTS

COUPLER LOCK



PART #

F41AE

M-201 Enhanced Grade E Steel for
higher yield and tensile strength
AAR Catalog No. F41AE

Fits F Couplers

KNUCKLE THROWER



PART #

F31A

M-201 Grade B Steel
AAR Catalog No. F31

Fits F Couplers

ROTARY LOCK



PART #

F400AE

M-201 Enhanced Grade E Steel for
higher yield and tensile strength

Fits F Couplers

All products meet or exceed AAR Specifications

F COUPLER COMPONENTS

ROTARY LOCK-LIFT ASSEMBLY

Manufactured for improved surface finish and tight tolerances to ensure proper coupler operation.

| |
|--------|
| PART # |
|--------|

| |
|-----------|
| F7 |
|-----------|

Ductile Iron
AAR Catalog No. F7

Fits F Couplers



ROTOR



| |
|--------|
| PART # |
|--------|

| |
|------------|
| F8A |
|------------|

Ductile Iron
AAR Catalog No. F8A

Fits F Couplers

E & F KNUCKLE PIN



| |
|--------|
| PART # |
|--------|

| |
|-------------|
| C10P |
|-------------|

AAR Catalog No. C10
AAR M-118

All products meet or exceed AAR Specifications



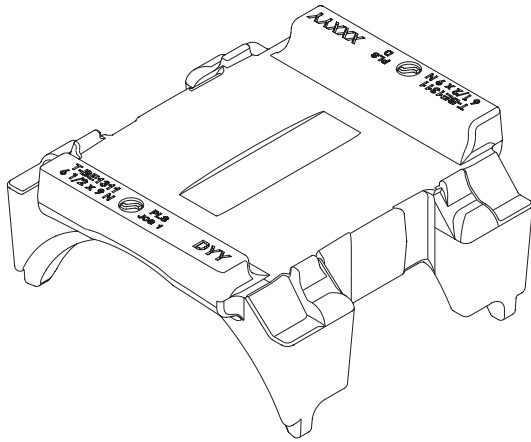
A collection of various metal parts, likely cast or forged components, arranged on a blue background. The parts include: a large square flange with a central hole and four mounting holes; a triangular gusset with a central hole and two mounting holes; a rectangular plate with a central hole and four mounting holes; a bolt; a nut; a ring; and a small pin. The parts are made of a dark, metallic material, possibly steel or cast iron, and show signs of wear and machining.

BEARING ADAPTER AND SHEAR PAD

Delivers AAR M-976 Performance
when used as part of an approved truck package.

Designed for 100T/110T Truck Bearing Size 6-1/2" x 9"

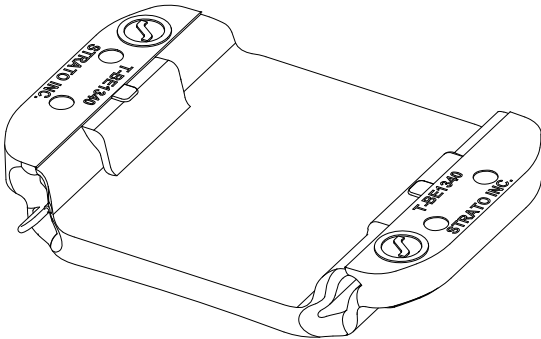
BEARING ADAPTER



PART #
T-BE1311

- Strato bearing adapter provides improved truck performance.
- Manufactured to control hardness and strength without heat treat.

SHEAR PAD



PART #
T-BE1340

- Strato shear pad provides 2:1 longer service life.
- Comprised of metal plates and natural rubber blend.
- High resistance to abrasion and tear.
- Excellent dynamic fatigue performance.
- Less heat build-up - will not melt in high-heat applications.
- No need for wear liner – does not wear pedestal roof.

BEARING ADAPTER SYSTEM

Includes one Shear Pad and one Bearing Adapter.

PART #
T-BE1351

SPLIT WEDGE INSERTS AND ASSEMBLIES

For Barber S-2 Trucks

SPLIT WEDGE ASSEMBLY

SOLD AS A PAIR - 1 LEFT AND 1 RIGHT

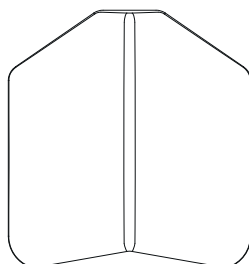
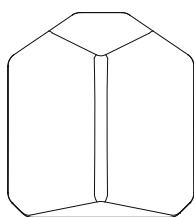


| ASSEMBLY PART # | SIZE |
|-----------------|-------------------------------|
| T-WG1243 | 70T Truck |
| T-WG1174 | 100T/110T Truck 125T Truck |



- Meets AAR M-980 specification.
- Made of acicular cast iron for superior wear resistance.
- Independent test lab results for AAR M-980 wear rate show Strato split wedges have **2X the wear life** when compared to other split wedges included in same test.
- Strato designed AAR M-980 test equipment to test wedges and wear plates in-house for wear resistance and durability.

SPLIT WEDGE INSERTS

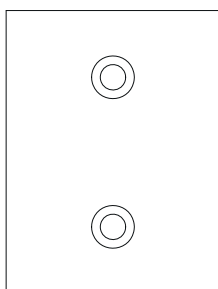
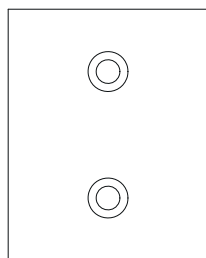


| PART # | SIZE |
|-----------------|------------------------------------------------------------------|
| T-BP1240 | 70T S-2-B Trucks 70T S-2-C Trucks |
| T-BP1171 | All S-2HD Trucks 100T/110T & 125T Trucks; Strato 70T Truck |

- Manufacturing Process: Forged
- Material: AISI 1030 Steel (Carbon Steel)
- Application: Weld to the bolster pocket

WEAR PLATES

COLUMN WEAR PLATES

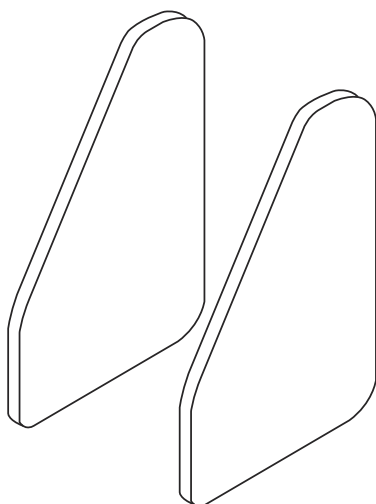


| PART # | SIZE |
|-----------------|-----------------------------------|
| T-SP1198 | 7.5" x 9.94" (100T/110T TRUCK) |
| T-SP1218 | 7.5" x 9.44" (125T TRUCK) |

- Made of 1/2" thick 1095 steel.
- Hardness precisely controlled to extend life when paired with **Strato** split wedges.
- Strato designed AAR M-980 test equipment to test wedges and wear plates for wear resistance and durability.

SIDE WALL WEAR PLATES

For Barber S-2 Trucks

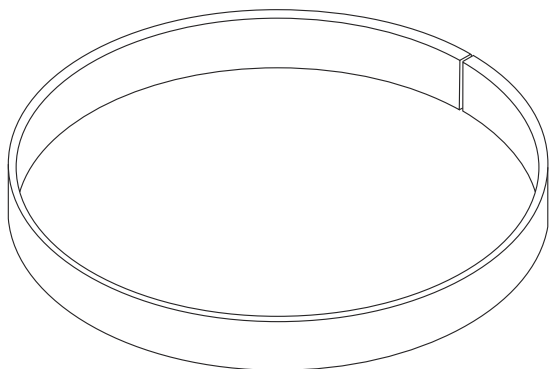


| PART # | SIZE |
|-----------------|------------------------------|
| T-BP1355 | 70T TRUCK 100T/110T TRUCK |
| T-BP1300 | 125T TRUCK |

- Made from high-strength alloy steel.
- Designed to resist abrasion.

CENTER PLATE LINERS AND HARDWARE

CENTER PLATE VERTICAL LINER

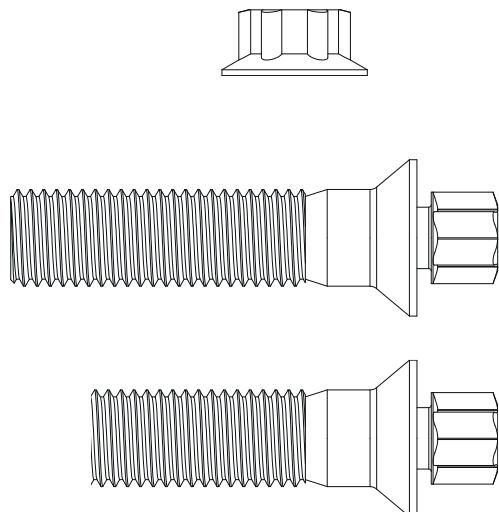


| PART # | SIZE |
|--------------------|--------------|
| CPVL-1001-0 | 16" x 2" |
| CPVL-1001-1 | 16" x 2-1/4" |
| CPVL-1002-0 | 14" x 1-1/8" |
| CPVL-1002-1 | 14" x 1-3/8" |

- Material: 304 Stainless Steel

HARDWARE USED ON SIDE FRAME ASSEMBLY

ADDITIONAL SIZES AVAILABLE



| PART # | SIZE |
|-----------------|-----------------------------------|
| T-SP1001 | NUT 3/4" - 10 |
| T-SP1000 | BOLT 3/4" - 10, 3-5/32" LENGTH |
| T-SP1003 | BOLT 3/4" - 10, 2-5/16" LENGTH |

- Bolt and nut made of high-strength alloy steel.
- Break-off bolt head with paraffin wax for lubrication during installation.
- Zinc phosphate coating to resist corrosion.



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Ground Hoses

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