

CERTIFICATE OF CONFORMANCE  
FOR  
MATERIALS SHIPPED

Tulsa Gas Technologies, Inc. (TGT) hereby certifies that all materials in the manufacture of serial number 18041214 PEN DOT, and/or manufacturing specifications indicated in drawings, bulletins or specifications as called for on the said purchase order. Test reports are on file with us or with our suppliers for examination and indicate conformance with applicable specification requirements. In production items listed, no direct contact was made with mercury, any of its compounds nor with any mercury containing devices employing a single boundary for containment. Tulsa Gas Technologies, Inc. also certifies that the parts listed and shipped on the date indicated are manufactured in accordance with Parker specifications and quality standards, if applicable, as stated on the drawings or specifications called for on said purchase order. All parts and test conform to AGA I-93.

SIGNED BY: C.R. Kendall

TITLE: ASSEMBLY

DATE: 6/6/2018

Tulsa Gas Technologies, Inc.  
 4809 S. 101st. E. Ave.  
 Tulsa, OK 74146  
 918-665-2641

Disp. Serial # 1804121  
 Customer Name PEN DOT  
 Customer PO N/A  
 Date Required 6/6/2018

ASSEMBLY/CERTIFICATION SHEET

		SIGN	DATE
1	<input checked="" type="checkbox"/> Review shop work order versus customer print and history	<u>CK</u>	<u>6/6/2018</u>
2	<input checked="" type="checkbox"/> Component part numbers: _____ Pack dates and/or QC codes <u>5206730643</u>	<u>CK</u>	<u>6/6/2018</u>
3	<input checked="" type="checkbox"/> ID band number <u>5CNG8/5CNG4-0606/0506-128/66-96"</u>	<u>CK</u>	<u>6/6/2018</u>
4	<input checked="" type="checkbox"/> Hose Cut Length <u>96"</u>	<u>CK</u>	<u>6/4/2018</u>
5	<input type="checkbox"/> Pre-expansion of hose (if required) Size _____ Remarks: _____		
6	<input checked="" type="checkbox"/> Audit and mark appropriate insertion depth	<u>CK</u>	<u>6/6/2018</u>
7	<input type="checkbox"/> Add special accessories _____ Remarks: _____		
8	<input checked="" type="checkbox"/> Apply danger tag and ID band	<u>CK</u>	<u>6/6/2018</u>
9	<input checked="" type="checkbox"/> Install bend restrictors Remarks: _____	<u>CK</u>	<u>6/6/2018</u>
10	<input checked="" type="checkbox"/> Assemble fittings; check insertion depth Remarks: _____	<u>CK</u>	<u>6/6/2018</u>
11	<input type="checkbox"/> Set offset angle and/or orientation Remarks: _____		
12	<input checked="" type="checkbox"/> Perform crimp or swage on product/crimp set die-using Parker Catalog 4660, page K58 _____ X _____ 1/2) 80C-PO8H _____ 3/8) 80C-PO6H _____ 1/4) 80C-PO4H _____ 1/8) 80C-PO2 _____ 3/8) 80C-PO6 _____ 3/4) 80C-P12H	<u>CK</u>	<u>6/6/2018</u>
13	<input type="checkbox"/> Add special accessories after crimping/swaging		
14	<input type="checkbox"/> Perform and record burst test results, if applicable Remarks: _____		
15	<input type="checkbox"/> Air test, if applicable Test pressure Psi _____ Seconds _____; Pass/Fail (Circle One) Remarks: _____		
16	<input checked="" type="checkbox"/> Hydrostatic proof test Test pressure Psi <u>10,000</u> Seconds <u>30</u> ; <u>Pass</u> /Fail (Circle One) Remarks: <u>Personal Pressure Test</u>	<u>CK</u>	<u>6/6/2018</u>
17	<input checked="" type="checkbox"/> Flush method water, and then air	<u>CK</u>	<u>6/6/2018</u>
18	<input checked="" type="checkbox"/> Perform and record conductivity test; Meter <u>Megger Mit200</u> Hose resistance <u>0</u> (-) Electrode resistance <u>0.03</u> 0.03	<u>CK</u>	<u>6/6/2018</u>
19	<input checked="" type="checkbox"/> Final audit: Check boxes for items inspected, as applicable: _____ X _____ Correct hose; _____ X _____ Correct fittings; _____ X _____ Correct customer PN Check swage or crimp diameters: _____ 5CNG-4-55 .580+-.05 _____ 5CNG-4-58 .785/.805 _____ X _____ 5CNG-8-58 .900/.920 _____ 5CNG-6-55 .675/.695 _____ 5CNG-12-58 1.20/1.22 *****100% VISUAL INSPECT FOR THE FOLLOWING***** _____ X _____ Hose fittings crimped; _____ X _____ Air passes through assembly; _____ X _____ Presence of threads	<u>CK</u>	<u>6/6/2018</u>
20	<input checked="" type="checkbox"/> Cap and package hose	<u>CK</u>	<u>6/6/2018</u>
21	<input checked="" type="checkbox"/> Certificate of Conformance for Materials Shipped (on back)	<u>CK</u>	<u>6/6/2018</u>

0.05

- 3 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 1 58 SERIES
- HOSE SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 10 5/8"
- 12 3/4"

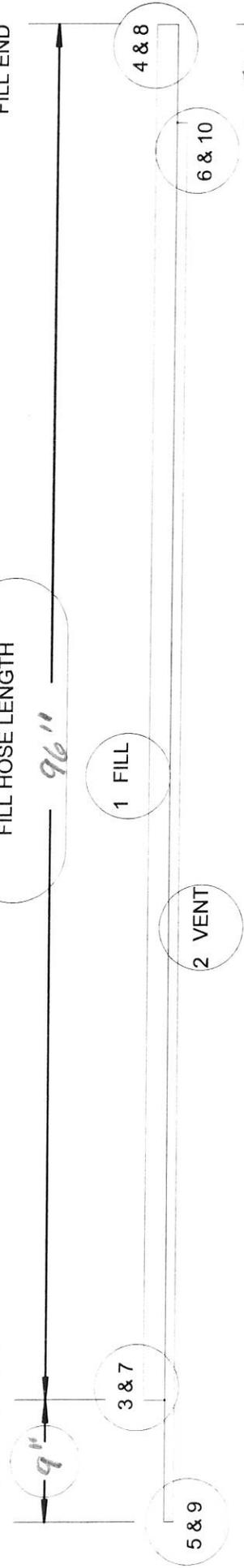
- 4 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 8 FITTING SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 12 3/4"

BREAK-AWAY END

cut 105"  
96"

FILL END



- 5 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 2 55 SERIES
- HOSE SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

- 6 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 10 FITTING SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

STANDARD 3"  
SHEREX 5/8"

w/0-TRIL-031918  
5/0-18041214

WORK ORDER # 1 2 3 4 5 6 7 8 9 10 11  
 5CNG8/5CNG4-0606/0506-128/66-96'

### FILL HOSE

DATE: 03/27/97  
 DESIGNED BY: C. SEWELL  
 DRAWN BY: C.R.S.  
 CHECKED BY:  
 SCALE: NONE  
 SHEET NO. OF: 1  
 REV. 1

TULSA GAS TECHNOLOGIES, INC.  
 10117 EAST 45TH STREET  
 TULSA, OK 74140  
 918-465-2641 FAX: 918-465-2657

CERTIFICATE OF CONFORMANCE  
FOR  
MATERIALS SHIPPED

Tulsa Gas Technologies, Inc. (TGT) hereby certifies that all materials in the manufacture of serial number 18041214 PEN DOT, and/or manufacturing specifications indicated in drawings, bulletins or specifications as called for on the said purchase order. Test reports are on file with us or with our suppliers for examination and indicate conformance with applicable specification requirements. In production items listed, no direct contact was made with mercury, any of its compounds nor with any mercury containing devices employing a single boundary for containment. Tulsa Gas Technologies, Inc. also certifies that the parts listed and shipped on the date indicated are manufactured in accordance with Parker specifications and quality standards, if applicable, as stated on the drawings or specifications called for on said purchase order. All parts and test conform to AGA I-93.

SIGNED BY: *C. R. Kendall*

TITLE: ASSEMBLY

DATE: 6/6/2018

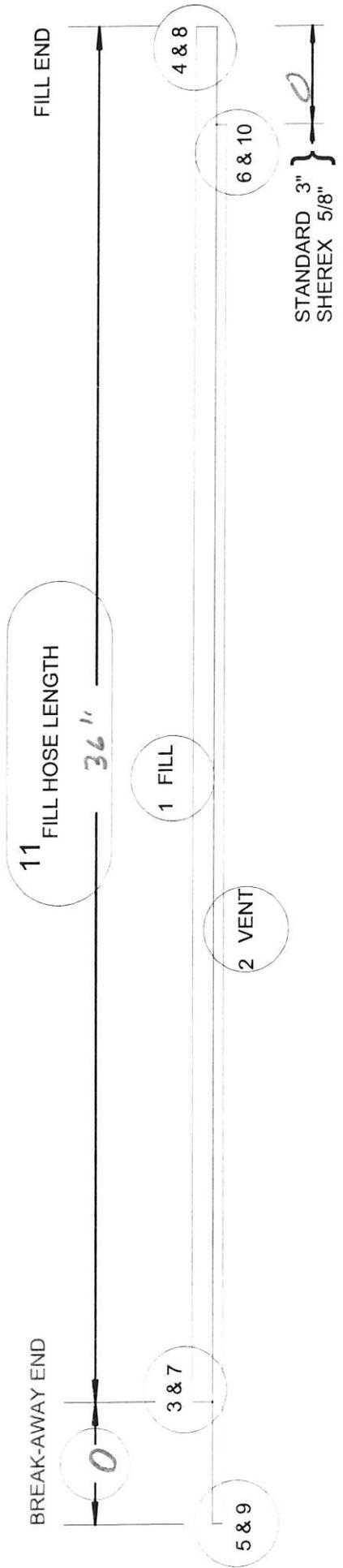


- 3 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 1 58 SERIES HOSE SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 10 5/8"
- 12 3/4"

- 4 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 8 FITTING SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 12 3/4"



- 5 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 2 55 SERIES HOSE SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

- 6 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

STANDARD 3"  
SHEREX 5/8"

w/o-Tr11031918

WORK ORDER # 5CNG

1 2 3 4 5 6 7 8 9 10 11  
 4-0606 / 0506 / 1212 / 16 - 36"

FILL HOSE

DATE 03/27/97  
 DESIGNED BY C. SEWELL  
 DRAWN BY C.R.S.  
 DWG. NO. FILLHOSE.worfordr.dwg2 SHEET NO. OF 1 REV. 1

TULSA GAS TECHNOLOGIES, INC.  
 10117 EAST 40TH STREET  
 TULSA, OK 74116  
 918-666-2641 FAX: 918-666-2667

CERTIFICATE OF CONFORMANCE  
FOR  
MATERIALS SHIPPED

Tulsa Gas Technologies, Inc. (TGT) hereby certifies that all materials in the manufacture of serial number 18041214 PEN DOT.and/or manufacturing specifications indicated in drawings, bulletins or specifications as called for on the said purchase order. Test reports are on file with us or with our suppliers for examination and indicate conformance with applicable specification requirements. In production items listed, no direct contact was made with mercury, any of its compounds nor with any mercury containing devices employing a single boundary for containment. Tulsa Gas Technologies, Inc. also certifies that the parts listed and shipped on the date indicated are manufactured in accordance with Parker specifications and quality standards, if applicable, as stated on the drawings or specifications called for on said purchase order. All parts and test conform to AGA I-93.

SIGNED BY: c. R. Kendall

TITLE: ASSEMBLY

DATE: 6/6/2018



2.0.0

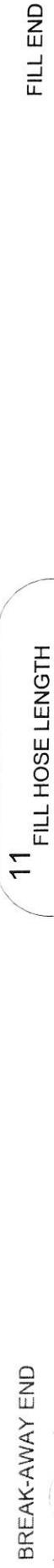
- 3 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 1 58 SERIES
- HOSE SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 10 5/8"
- 12 3/4"

- 4 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 8 FITTING SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 12 3/4"

cut 105"



- 5 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 2 55 SERIES
- HOSE SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

- 6 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 10 FITTING SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

W0-TR12031918

WORK ORDER # 5/1-18041214

1 2 3 4 5 6 7 8 9 10 11  
 5CNG12/5CNG6-0606/0506-1212/66-96"

### FILL HOSE

DATE: 03/27/97  
 DESIGNED BY: C. SEWELL  
 DRAWN BY: C.R.S.  
 DWG. NO. FILLHOSE.worlorder.dwg

TULSA GAS TECHNOLOGIES, INC.  
 10177 EAST 40TH STREET  
 TULSA, OK 74146  
 918-665-2641 FAX: 918-665-2657  
 CHECKED BY: SCALE NONE  
 SHEET NO. OF REV. 1

CERTIFICATE OF CONFORMANCE  
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SIGNED BY:           *C. R. Kendall*          

TITLE: ASSEMBLY

DATE: 6/6/2018

Tulsa Gas Technologies, Inc.  
 4809 S. 101st. E. Ave.  
 Tulsa, OK 74146  
 918-665-2641

Disp. Serial # 180 41 714  
 Customer Name PEN DOT  
 Customer PO N/A  
 Date Required 6/6/2018

ASSEMBLY/CERTIFICATION SHEET

		SIGN	DATE
1	<input checked="" type="checkbox"/> Review shop work order versus customer print and history	<u>CH</u>	<u>6/6/2018</u>
2	<input checked="" type="checkbox"/> Component part numbers: _____ Pack dates and/or QC codes <u>5229715605</u>	<u>CH</u>	<u>6/6/2018</u>
3	<input checked="" type="checkbox"/> ID band number <u>5CNG12/5CNG6-0606/0506-1212/66-36"</u>	<u>CH</u>	<u>6/6/2018</u>
4	<input checked="" type="checkbox"/> Hose Cut Length <u>36"</u>	<u>CH</u>	<u>6/4/2018</u>
5	<input type="checkbox"/> Pre-expansion of hose (if required) Size _____ Remarks: _____		
6	<input checked="" type="checkbox"/> Audit and mark appropriate insertion depth	<u>CH</u>	<u>6/6/2018</u>
7	<input type="checkbox"/> Add special accessories _____ Remarks: _____		
8	<input checked="" type="checkbox"/> Apply danger tag and ID band	<u>CH</u>	<u>6/6/2018</u>
9	<input checked="" type="checkbox"/> Install bend restrictors Remarks: _____	<u>CH</u>	<u>6/6/2018</u>
10	<input checked="" type="checkbox"/> Assemble fittings; check insertion depth Remarks: _____	<u>CH</u>	<u>6/6/2018</u>
11	<input type="checkbox"/> Set offset angle and/or orientation Remarks: _____		
12	<input checked="" type="checkbox"/> Perform crimp or swage on product/crimp set die-using Parker Catalog 4660, page K58 _____ 1/2) 80C-PO8H _____ 3/8) 80C-PO6H _____ 1/4) 80C-PO4H _____ 1/8) 80C-PO2 _____ 3/8) 80C-PO6 <u>X</u> _____ 3/4) 80C-P12H	<u>CH</u>	<u>6/6/2018</u>
13	<input type="checkbox"/> Add special accessories after crimping/swaging		
14	<input type="checkbox"/> Perform and record burst test results, if applicable Remarks: _____		
15	<input type="checkbox"/> Air test, if applicable Test pressure Psi _____ Seconds _____; Pass/Fail (Circle One) Remarks: _____		
16	<input checked="" type="checkbox"/> Hydrostatic proof test Test pressure Psi <u>10,000</u> Seconds <u>30</u> ; <u>Pass</u> Fail (Circle One) Remarks: <u>Rapid Pressure Test</u>	<u>CH</u>	<u>6/6/2018</u>
17	<input checked="" type="checkbox"/> Flush method water, and then air	<u>CH</u>	<u>6/6/2018</u>
18	<input checked="" type="checkbox"/> Perform and record conductivity test; Meter <u>Megger Mit200</u> Hose resistance <u>0</u> (-) Electrode resistance <u>0.01</u> <u>0.01</u>	<u>CH</u>	<u>6/6/2018</u>
19	<input checked="" type="checkbox"/> Final audit: Check boxes for items inspected, as applicable: <input checked="" type="checkbox"/> Correct hose; <input checked="" type="checkbox"/> Correct fittings; <input checked="" type="checkbox"/> Correct customer PN Check swage or crimp diameters: _____ 5CNG-4-55 .580+-.05 _____ 5CNG-4-58 .785/.805 _____ 5CNG-8-58 .900/.920 _____ 5CNG-6-55 .675/.695 <u>X</u> _____ 5CNG-12-58 1.20/1.22 *****100% VISUAL INSPECT FOR THE FOLLOWING***** <input checked="" type="checkbox"/> Hose fittings crimped; <input checked="" type="checkbox"/> Air passes through assembly; <input checked="" type="checkbox"/> Presence of threads	<u>CH</u>	<u>6/6/2018</u>
20	<input checked="" type="checkbox"/> Cap and package hose	<u>CH</u>	<u>6/6/2018</u>
21	<input checked="" type="checkbox"/> Certificate of Conformance for Materials Shipped (on back)	<u>CH</u>	<u>6/6/2018</u>

