

ALFAGOMMA®

Crimped Steam Hose Assemblies and Bulk Components



Kuriyama of America, Inc.



EDITION 1119

T340AA/AH Series

270 PSI EPDM Braided Steam Hose Assemblies

General Applications:

- Saturated steam applications up to 270 PSI and 410°F
- High pressure industrial equipment cleaning at refineries, processing plants and shipyards
- Thawing and de-icing of outdoor pipes and other equipment during cold temperatures

Construction:

- **Tube** – Black, conductive EPDM.
- **Reinforcement** – Two high tensile steel wire braids.
- **Cover** – Red or black, pin-pricked EPDM.
- **Ends** – Crimped on male NPT x female ground joint with NPT spud.

Features and Advantages:

- **Crimped on Fittings** – The preferred connection method. Reduces risk of leaks and blowouts versus bolt clamps, which require repeated tightening in order to maintain a tight seal.
- **Highest Pressure Capabilities** – Handles pressures up to 270 PSI, higher than other steam hoses which range up to 250 PSI.
- **Pin Pricked Cover** – Vents trapped vapors to help prevent “popcorning.”



Service Temperature Range:
-40°F (-40°C) to +410°F (+210°C)

Branding:

ALFAGOMMA – ITALY T340 18 BAR (270 PSI)
STEAM – DRAIN AFTER USE

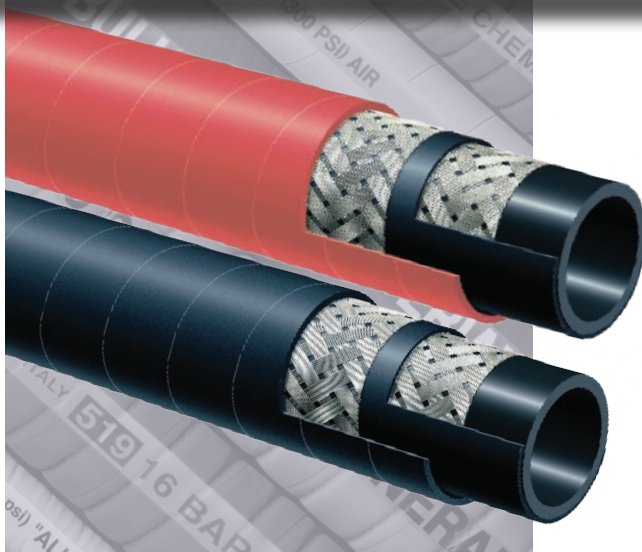
- **Heat Resistant** – Specially formulated, heat resistant EPDM tube and cover. Capable of transferring saturated steam of up to +410°F.
- **Conductive Tube** – Helps dissipate potential charge to ground, reducing the risk of shocks.
- **Highly Durable Cover** – Heat, weathering, abrasion and ozone resistant cover designed to perform in highly demanding steam hose applications.

Nominal Specifications

| Part Number | ID (in) | ID (mm) | Max Rec.* WP (psi) | Min. Bending Radius at 68°F (in) | Weight (lbs/each) | Color | Fitting Types | Length (ft) |
|------------------|---------|---------|--------------------|----------------------------------|-------------------|-------|--------------------|-------------|
| T340AA075GFMPX25 | 3/4 | 19 | 270 | 7 1/2 | 12.6 | black | Male NPT x Fem. GJ | 25 |
| T340AH075GFMPX25 | 3/4 | 19 | 270 | 7 1/2 | 12.6 | red | Male NPT x Fem. GJ | 25 |
| T340AA075GFMPX50 | 3/4 | 19 | 270 | 7 1/2 | 25.1 | black | Male NPT x Fem. GJ | 50 |
| T340AH075GFMPX50 | 3/4 | 19 | 270 | 7 1/2 | 25.4 | red | Male NPT x Fem. GJ | 50 |
| T340AA100GFMPX25 | 1 | 25 | 270 | 10 | 15.4 | black | Male NPT x Fem. GJ | 25 |
| T340AH100GFMPX25 | 1 | 25 | 270 | 10 | 15.5 | red | Male NPT x Fem. GJ | 25 |
| T340AA100GFMPX50 | 1 | 25 | 270 | 10 | 30.6 | black | Male NPT x Fem. GJ | 50 |
| T340AH100GFMPX50 | 1 | 25 | 270 | 10 | 31.1 | red | Male NPT x Fem. GJ | 50 |

* 10:1 Safety Factor

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS OR DISCONTINUE PRODUCTS WITHOUT PRIOR NOTICE.



T340AA/AH Series 270 PSI EPDM Braided Steam Hose

General Applications:

- Saturated steam applications up to 270 PSI and 410°F
- High pressure industrial equipment cleaning at refineries, processing plants and shipyards
- Thawing and de-icing of outdoor pipes and other equipment during cold temperatures

Construction:

- **Tube** – Black, conductive EPDM.
- **Reinforcement** – Single high tensile steel wire braid (1/2" Size), Two high tensile steel wire braids (3/4" to 3").
- **Cover** – Red or black pin-pricked EPDM.

Service Temperature Range:
-40°F (-40°C) to +410°F (+210°C)

Branding:
ALFAGOMMA – ITALY T340 18 BAR (270 PSI)
STEAM – DRAIN AFTER USE

Features and Advantages:

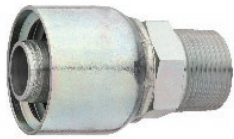
- **Highest Pressure Capabilities** – Handles pressures up to 270 PSI, higher than other steam hoses which range up to 250.
- **Pin Pricked Cover** – Vents trapped vapors to help prevent “popcorning.”
- **Heat Resistant** – Specially formulated, heat resistant EPDM tube and cover. Capable of transferring saturated steam of up to +410°F.
- **Conductive Tube** – Helps dissipate potential charge to ground, reducing the risk of shocks.
- **Highly Durable Cover** – Heat, weathering, abrasion and ozone resistant cover designed to perform in highly demanding, steam hose applications.

Nominal Specifications

| Series Number | ID (in) | ID (mm) | OD (in) | OD (mm) | Max Rec.* WP (psi) | Min. Bending Radius at 68°F (in) | Weight (lbs/ft) | Color | Standard Lengths (ft) |
|---------------|---------|---------|---------|---------|--------------------|----------------------------------|-----------------|-------|-----------------------|
| T340AA050 | 1/2 | 13 | 0.91 | 23 | 270 | 5 | 0.28 | black | 50/100 |
| T340AH050 | 1/2 | 13 | 0.91 | 23 | 270 | 5 | 0.28 | red | 50/100 |
| T340AA075 | 3/4 | 19 | 1.22 | 31 | 270 | 7 1/2 | 0.52 | black | 50/100/200 |
| T340AH075 | 3/4 | 19 | 1.22 | 31 | 270 | 7 1/2 | 0.52 | red | 50/100/200 |
| T340AA100 | 1 | 25 | 1.50 | 38 | 270 | 10 | 0.60 | black | 50/100 |
| T340AH100 | 1 | 25 | 1.50 | 38 | 270 | 10 | 0.60 | red | 50/100 |
| T340AA200 | 2 | 51 | 2.64 | 67 | 270 | 20 | 1.38 | black | 50/100 |
| T340AA250 | 2 1/2 | 63 | 3.19 | 81 | 270 | 25 | 1.99 | black | 50 |
| T340AA300 | 3 | 76 | 3.70 | 94 | 270 | 30 | 2.50 | black | 50 |

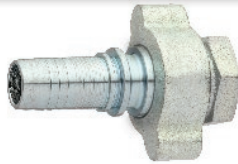
* 10:1 Safety Factor

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS OR DISCONTINUE PRODUCTS WITHOUT PRIOR NOTICE.



One-piece, Male Crimp NPT Fitting

| Part Number | Size (in) | Weight Each (lbs) |
|-------------|-----------|-------------------|
| D-1212-MNPT | 3/4 | 0.51 |
| D-1616-MNPT | 1 | 1.04 |
| D-2020-MNPT | 1 1/4 | 1.49 |
| D-2424-MNPT | 1 1/2 | 1.89 |
| D-3232-MNPT | 2 | 3.17 |



Female Crimp Ground Joint with Wing Nut and Female NPT Spud*

| Part Number | Size (in) | Weight Each (lbs) |
|-------------|-----------|-------------------|
| SHGJ-CR075 | 3/4 | 1.98 |
| SHGJ-CR100 | 1 | 1.98 |
| SHGJ-CR125 | 1 1/4 | 3.75 |
| SHGJ-CR150 | 1 1/2 | 3.64 |
| SHGJ-CR200 | 2 | 5.97 |

* Available Q1 2020



Crimp Ferrule for use with Female Ground Joint (SHGJ Series)*

| Part Number | Size (in) | Weight Each (lbs) |
|-------------|-----------|-------------------|
| SHF-12 | 3/4 | 0.24 |
| SHF-16 | 1 | 0.46 |
| SHF-20 | 1 1/4 | 0.54 |
| SHF-24 | 1 1/2 | 0.76 |
| SHF-32 | 2 | 1.16 |

* Available Q1 2020



Female Spud with Copper Seal (Female NPT x Male NPS)

| Part Number | Size (in) | Weight Each (lbs) | Standard Carton |
|-------------|-----------|-------------------|-----------------|
| GJF-050 | 1/2 | 0.29 | 200 |
| GJF-075 | 3/4 | 0.64 | 100 |
| GJF-100 | 1 | 0.57 | 100 |
| GJF-125 | 1 1/4 | 1.21 | 40 |
| GJF-150 | 1 1/2 | 1.04 | 40 |
| GJF-200 | 2 | 1.39 | 32 |



Male Spud with Copper Seal (Male NPT x Male NPS)

| Part Number | Size (in) | Weight Each (lbs) | Standard Carton |
|-------------|-----------|-------------------|-----------------|
| GMS-050 | 1/2 | 0.29 | 100 |
| GMS-075 | 3/4 | 0.75 | 60 |
| GMS-100 | 1 | 0.79 | 50 |
| GMS-125 | 1 1/4 | 1.43 | 30 |
| GMS-150 | 1 1/2 | 1.70 | 30 |
| GMS-200 | 2 | 2.23 | 30 |



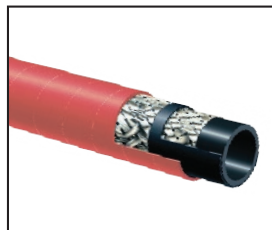
Double Spud with Copper Seal (Male NPS x Male NPS)

| Part Number | Size (in) | Weight Each (lbs) | Standard Carton |
|-------------|-----------|-------------------|-----------------|
| GDS-050 | 1/2 | 0.40 | 100 |
| GDS-075 | 3/4 | 1.32 | 60 |
| GDS-100 | 1 | 1.32 | 50 |
| GDS-125 | 1 1/4 | 1.41 | 30 |
| GDS-150 | 1 1/2 | 1.41 | 30 |
| GDS-200 | 2 | 1.92 | 24 |

Other Steam Hose Products Available from Kuriyama



T341 Series
Chlorobutyl Steam Hose



T343 Series
EPDM Steam Hose with Oil Resistant Cover

Refer to pages 26 and 27 of the Alfacomma Catalog for details.



GJ Series



GJM Series



WC Series



BC2 Series



BC4 Series



BC6 Series

Clamp Steam Hose Fittings & Bolt Clamps
Refer to pages 38, 39 and 48 of the Kuriyama Couplings Catalog for details.



WS Series

Safety Cables
Refer to page 55 of the Kuriyama Couplings Catalog for details.

WARNING

Handling steam is very hazardous. If it is not properly controlled it can cause property damage, injury or even death. Selection for the proper application, usage, and maintenance will not only increase hose life but will insure safe operation for the user.

SELECTING AND USING STEAM HOSE

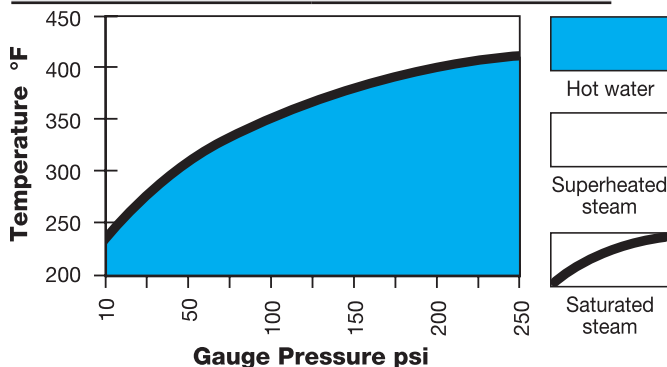
1. Make sure steam hose is identified as a steam hose. It should be branded as such, stating working pressure and temperature rating.
2. Make sure working pressure and temperature is not exceeded.
3. Do not allow hose to remain under pressure when not in use.
4. Avoid excess bending or flexing of hose near the coupling. Straight line operation is preferred. If bends are necessary as part of operation, spring guards may help.
5. Be sure and use recommended steam hose couplings and clamps on hose.

MAINTENANCE OF STEAM HOSE

1. Periodic inspection of hose should include looking for cover blisters and lumps.
2. Check for kinked areas that could damage hose.
3. Drain hose after each use to avoid tube damage before hose is put back in operation, to avoid "popcorning" of the tube.
4. Check tightness of clamps bolts after each use.
5. Check to see if clamps halves are touching. If they are, recouple hose with smaller clamps to insure proper tightness or grip around hose.
6. Do not store hose over hooks.
7. Steam hose lying on metal racks or installed around steel piping will dry out the hose, causing tube and cover cracking.
8. For service in sub-zero application, use only T-341 chlorbutyl hose.

The chart represents the three forms of water when subjected to heat and pressure. Use only hoses specifically designed for the application.

| Gauge Pressure (psi) | Temperature of Saturated Steam (°F) |
|----------------------|-------------------------------------|
| 10 | 239 |
| 25 | 267 |
| 50 | 298 |
| 75 | 320 |
| 100 | 338 |
| 125 | 353 |
| 150 | 366 |
| 175 | 377 |
| 200 | 388 |
| 225 | 397 |
| 250 | 406 |



| Gauge Pressure | | Temperature | |
|----------------|-------|-------------|-----|
| psi | bar | °F | °C |
| 25 | 1.73 | 130 | 267 |
| 30 | 2.07 | 134 | 274 |
| 35 | 2.42 | 138 | 281 |
| 40 | 2.76 | 141 | 287 |
| 45 | 3.11 | 144 | 292 |
| 50 | 3.45 | 148 | 298 |
| 60 | 4.14 | 153 | 307 |
| 70 | 4.83 | 158 | 316 |
| 80 | 5.52 | 162 | 324 |
| 90 | 6.21 | 166 | 330 |
| 100 | 6.90 | 170 | 338 |
| 120 | 8.28 | 177 | 350 |
| 140 | 9.66 | 182 | 361 |
| 160 | 11.04 | 188 | 371 |
| 180 | 12.42 | 193 | 379 |
| 200 | 13.80 | 198 | 388 |
| 225 | 15.53 | 203 | 397 |
| 250 | 17.25 | 208 | 406 |
| 275 | 18.98 | 212 | 414 |
| 300 | 20.70 | 216 | 422 |
| 325 | 22.43 | 221 | 429 |
| 350 | 24.15 | 225 | 437 |

CORROSIVE STEAM

When the water used to generate steam contains dissolved air, oxygen or carbon dioxide, then these gases end up as contaminants in the steam. At high temperatures of steam both oxygen and carbon dioxide are extremely corrosive.

Carbon dioxide is acidic and therefore attacks metals whereas the oxygen corrodes metals and oxidizes rubbers. Corrosion of metals in the presence of both oxygen and acids is forty times faster than with either alone. Boiler water is therefore normally treated not only to remove the "hardness" which would cause "furring" of the boiler but also to remove dissolved oxygen and carbon dioxide and to ensure that the steam is not only not acidic but even slightly alkaline. Boiler water treatment is a specialised subject beyond the scope of this technical sheet but correct steam generation is important.

DETERIORATION OF STEAM HOSE

Like all rubber products steam hoses have a finite life and are subject to gradual deterioration with use. However, it sometimes happens that hoses which have been giving a good life suddenly start failing without apparent reason. In such cases it is often a change in the steam conditions causing a rapid acceleration of a normal failure mode. It is therefore useful to consider how steam hoses normally last and thus how the condition of the steam affects hose life.

(Reprinted from RMA IP-11-1 Steam Hose)

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS OR DISCONTINUE PRODUCTS WITHOUT PRIOR NOTICE.

Cautionary Statement

All Products sold and distributed by Kuriyama of America, Inc. are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or Products for the intended purposes, uses or applications.

Kuriyama of America, Inc. ("Seller") does not recommend the Products for any particular purpose, use or application, and the Purchaser or user thereof shall assume full responsibility for the suitability, propriety, use and application of the Products. Purchaser shall follow all instructions contained in Seller's catalogs, brochures, technical bulletins and other documents regarding the Products. The Products, including but not limited to, hose, tubing or couplings, may fail due to the use or conveyance of substances at elevated or lowered temperatures or at excessive pressure, the conveyance of abrasive, injurious, flammable, explosive or damaging substances.

Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

Limited Warranty

The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. ALL WARRANTY CLAIMS SHALL BE MADE WITHIN SIX (6) MONTHS AFTER SELLER SHIPPED THE PRODUCTS. SELLER'S LIABILITY HEREUNDER IS LIMITED AT SELLER'S EXCLUSIVE DISCRETION, TO 1) THE PURCHASE PRICE OF ANY PRODUCTS PROVING DEFECTIVE; 2) REPAIR OF ANY DEFECTIVE PRODUCT OR PART THEREOF; OR 3) REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART UPON ITS AUTHORIZED RETURN TO SELLER.

THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE CREATED UNDER APPLICABLE LAW INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SELLER OR THE MANUFACTURER OF THE PRODUCT BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF PROFITS, WHETHER OR NOT CAUSED BY OR RESULTING FROM THE NEGLIGENCE OF SELLER AND/OR THE MANUFACTURER OF THE PRODUCT, UNLESS SPECIFICALLY PROVIDED HEREIN. IN ADDITION, THIS WARRANTY SHALL NOT APPLY TO ANY PRODUCTS OR PORTIONS THEREOF WHICH HAVE BEEN SUBJECTED TO ABUSE, MISUSE, IMPROPER INSTALLATION, MAINTENANCE, OR OPERATION, ELECTRICAL FAILURE OR ABNORMAL CONDITIONS, AND TO PRODUCTS WHICH HAVE BEEN TAMPERED WITH, ALTERED, MODIFIED, REPAIRED, REWORKED BY ANYONE NOT APPROVED BY SELLER, OR USED IN ANY MANNER INCONSISTENT WITH THE PROVISIONS OF THE "CAUTIONARY STATEMENT" ABOVE OR ANY INSTRUCTIONS OR SPECIFICATIONS PROVIDED WITH OR FOR THE PRODUCT.

09/17/18 REV

Distributed by:



Kuriyama of America, Inc.

Headquarters, Sales Office and Warehouse Location

360 E. State Parkway, Schaumburg, IL 60173-5335

Phone: (847) 755-0360 • Toll-free FAX: (800) 800-0320

International FAX: (847) 885-0996

Web Site: www.kuriyama.com
E-Mail: sales@kuriyama.com



The trademarks contained in this publication are trademarks of Kuriyama of America, Inc.

The "Alfagomma" trademark contained in this publication is a registered trademark of Alfagomma S.p.A.

CONTACT OUR SALES/WAREHOUSE LOCATIONS BELOW WHICH SERVE YOUR AREA

SOUTHWEST WAREHOUSE KURIYAMA OF AMERICA, INC. HOUSTON

200 PORTWALL STREET, SUITE 100
HOUSTON, TX 77029
Phone: (713) 674-8212
Toll Free Phone: (800) 501-6808
FAX: (713) 674-5214
Toll Free FAX: (800) 800-5214

WESTERN WAREHOUSE KURIYAMA OF AMERICA, INC. SANTA FE SPRINGS

10749 SHOEMAKER AVENUE
SANTA FE SPRINGS, CA 90670-4039
Phone: (562) 941-4507
FAX: (562) 941-8940
Toll-Free FAX: (800) 326-8940

SOUTHEAST WAREHOUSE FORTNEY SALES CO., INC. 4221 CANTRELL ROAD NW ACWORTH, GA 30101

PHONE: (770) 427-6528
FAX: (770) 423-9249
Toll Free FAX: (800) 423-9249
Web Site: www.fortneysales.com
E-Mail: sales@fortneysales.com

EASTERN WAREHOUSE EASTERN RUBBER & PLASTICS CO., INC. 100 GOLDMAN DR. PLUMSTED INDUSTRIAL PARK CREAM RIDGE, NJ 08514

Phone: (609) 758-0100
FAX: (609) 758-0102
Toll Free FAX: (800) 445-7138
Web Site: www.easternrubber.com
E-Mail: sales@easternrubber.com

IN MEXICO:

KURIYAMA DE MÉXICO S DE RL DE CV
AV JOSE PALOMO MARTINEZ NO 520-20
BODEGA 5

PARQUE INDUSTRIAL OMOLAP
APODACA, N.L. CP:66633, MÉXICO

Telefonos: (81) 1086-1870 O 71

Lada sin Costo 01 800 822 52 00

FAX: (81) 1086-1869

Internet: www.kuriyama.com

Correo Electronico: ventas@kuriyama.com



kuriyama.com/50years



Visit us
www.kuriyama.com
on the Web!