

# **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

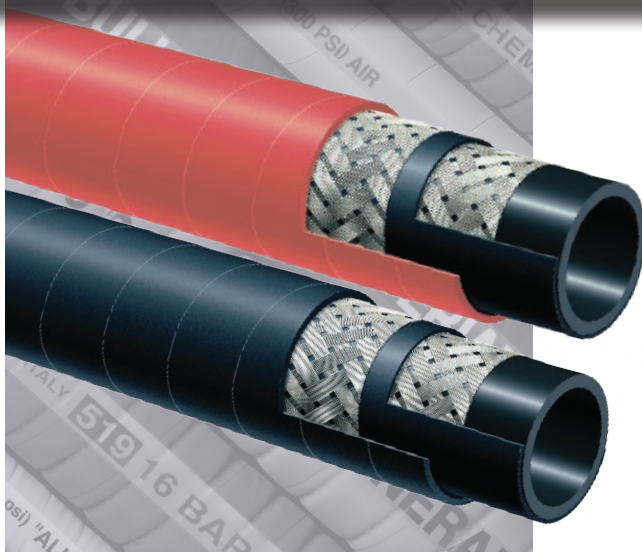
- **Heat Resistant** – Specially formulated, heat resistant EPDM tube and cover. Capable of transferring saturated steam of up to +410°F.
- **Conductive Tube** – Helps dissipate potential charge to ground, reducing the risk of shocks.
- **Highly Durable Cover** – Heat, weathering, abrasion and ozone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

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## 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.

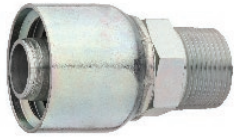
### Nominal Specifications

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

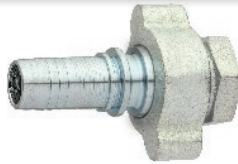
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**One-piece, Male Crimp NPT Fitting**

Part Number	Size (in)	Weight Each (lbs)
D-0808-MNPT	1/2	0.33
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-CR050	1/2	0.79
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-08	1/2	0.18
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

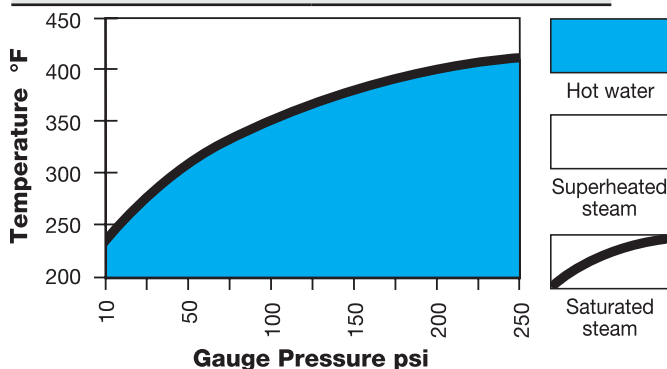
1. Make sure steam hose is identified as a steam hose. It should be branded as such, stating working pressure and temperature rating.
2. Make sure working pressure and temperature is not exceeded.
3. Do not allow hose to remain under pressure when not in use.
4. Avoid excess bending or flexing of hose 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)

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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.

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