



SINCE 1862

GASSÓ

The Specialist in fluid conduction

# GASSOFLEX: INDUSTRIAL COMPOSITE HOSES

## GASSOFLEX Composite Hoses



FEATURES	BENEFITS	SOLUTION
<b>1. Multi-use</b>	Useful in 95% of petro-chemicals products. Because of its resistant interior lining	<i>Most of solutions in 1 hose</i>
<b>2. Flexible</b>	Two wire spirals, inner and outer provide added strength and minimum bend radius to adapt to all types of loading operations	<i>Save time and gain productivity in your daily work</i>
<b>3. Lighter &amp; Resistant</b>	It is lighter than a rubber hose (especially from 3" to up) It is manufactured according to the pressure the hose must withstand. <b>Safety factor 5.1</b>	<i>Your staff will work faster and efficiency with a more resistant hose</i>
<b>4. Personalized</b>	Three basic components (inner /outer wire spirals and lining) can be selected according to customer's needs (Stainless Steel, Galvanized steel, PP Polypropylene, PTFE, Polyamide ,etc)	<i>Produce according your costumers needs. We also can customize the hose with your logo and corporate colors</i>
<b>4. Secure and quick assembling</b>	Gassoflex assembling system is simple, dry, fast drying and does not contaminate the product	<i>More resistance &amp; durability</i>
<b>5. Maintenance</b>	Quick and easy maintenance and reparation	<i>Better service</i>













# FACILITIES: MANUFACTURER



PRODUCTION  
AUTOMATIC LINES

- ✓ 6 Automated lines of production: up to 30 Mts Length from 1" to 12"
- ✓ Raw materials from EUROPE
- ✓ Present in > 90 Countries / 45 Distributors World wide

# GASSOFLEX: Applications & Technical data

APPLICATION		RANGE	Inner Wire Spiral	Outer wire Spiral	Inner Lining	Cover	Temp. Range	Bar
PETROL		GGE	<b>G</b> Galv. Steel	<b>G</b> Galvanized Steel	<b>E</b> Polypropylene	PVC	-30°C + 100°C	10 / 14
PETROL		AAE	<b>A</b> Aluminum	<b>A</b> Aluminum	<b>E</b> Polypropylene	PVC	-30°C + 100°C	10 / 14
BIODIESEL		AGP	<b>A</b> Aluminum	<b>G</b> Galvanized Steel	<b>P</b> Polyamide	PVC Coated Poly.Cloth	-30°C + 100°C	10 / 14
CHEMICAL		EGE	<b>E</b> PP Coated Steel	<b>G</b> Galvanized Steel	<b>E</b> Polypropylene	PVC Coated Poly.Cloth	-30°C + 100°C	10 / 14
AGRASSIVE CHEMICAL		SST	<b>S</b> Stainless Steel 316	<b>S</b> Stainless Steel 316	<b>T</b> PTFE	PVC Coated Poly.Cloth	-30°C + 100°C	10 / 14
LPG CRYOGENIC		LPG	<b>S</b> Stainless Steel 316	<b>S</b> Stainless Steel 316	<b>P</b> Polyamide / BPPO	PVC Coated Poly.Cloth	-50°C + 50°C	21/25
LNG CRYOGENIC		LNG	<b>S</b> Stainless Steel 316	<b>S</b> Stainless Steel 316	<b>P</b> Polyamide / Polyester	PVC Coated Poly.Cloth	-196°C +50°C	10,5 / 14 / 21
AVIATION		AGP	<b>A</b> Aluminum	<b>G</b> Galvanized Steel	<b>P</b> Polyamide	PVC Coated Poly.Cloth	-30°C + 100°C	10 / 14
HIGH TEMPERATURE		SSTP	<b>S</b> Stainless Steel 316	<b>S</b> Stainless Steel 316	<b>TP</b> Polyamide /PTFE / Fiber Glass	PVC Coated Poly.Cloth	-30°C + 240°C	14
VAPOR Recovery		GGE	<b>G</b> Galv. Steel	<b>G</b> Galvanized Steel	<b>E</b> Polypropylene	PVC	-30°C + 100°C	7



# GASSOFLEX: Quality certificates

**DNV-GL**  
Certificate No: TAF0000037

**TYPE EXAMINATION CERTIFICATE**

This is to certify:  
That the Bulk Loading Hoses with Permanently Fitted Couplings  
with type designation(s)  
AAE / GGE / SSE / SST / SSE

Manufactured by  
**COMERCIAL GASSO, S.A.**  
Sant Boi de Llobregat, Spain

is found to comply with  
EN 13765:2019

**Application :**  
Hose assemblies for carrying hydrocarbons, solvents and chemicals in liquid applications

Temperature range: -30°C to 80°C  
Max. working press.: 10 bar (Vacuum rating equal to 0,9 bar)  
Size: 80 mm  
This Certificate is valid until 2019-11-24.  
Issued at Havik on 2019-11-25

DNV GL local station: Barcelona  
Approval Engineer: Adel Samel

for DNV GL  
Digitally Signed by Marianne Spæren Marvang  
Approved on 2019-11-25  
Marianne Spæren Marvang  
Head of Section

This Certificate is subject to terms and conditions outlined. Any significant change in design or construction may render this Certificate invalid.  
The validity date refers to the Type Examination Certificate and not to the approval of equipment/containers available.

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Revision: 2019-12  
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**DNV-GL**  
Certificate No: P-15154  
File No: 791.74  
Job ID: 262.1-017366-1

**TYPE EXAMINATION CERTIFICATE**

This is to certify:  
That the Bulk Loading Hoses with Permanently Fitted Couplings  
with type designation(s)  
Gassoflex Marine Heavy Duty type EGE, GGE, SSE and SST

Manufactured by  
**COMERCIAL GASSO, S.A.**  
Sant Boi de Llobregat, Spain

is found to comply with  
International Code for the Construction and Equipment of Ships Carrying Dangerous Chemical in Bulk, 2007 Edition

**Application :**  
Can be used for loading/unloading of cargo ships according to the IBC code 2007 edition

Temperature range: -20°C to +100°C  
Max. working press.: 14 bar, 12 bar for SST  
Size: EGE, GGE and SST: 6", 8", 10" • SSE: 6" and 8"  
This Certificate is valid until 2019-06-30.  
Issued at Havik on 2019-01-23

DNV GL local station: Barcelona  
Approval Engineer: Tom Berg-Nielsen

for DNV GL  
Digitally Signed by Marianne Spæren Marvang  
Approved on 2019-01-23  
Marianne Spæren Marvang  
Head of Section

**DNV-GL**  
Certificate No: TAF0000037

**TYPE EXAMINATION CERTIFICATE**

This is to certify:  
That the Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings  
with type designation(s)  
Class A Type 1, Class A Type 2, Class B Type 1, Class B Type 2

Issued to  
**GASSO EQUIPMENTS S.A.**  
Sant Boi de Llobregat, Spain

is found to comply with  
EN 13766:2019 Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of liquid petroleum gas and liquefied natural gas - Specification

**Application :**  
See page 2

Type: Temperature range: Max. working press.: Size:  
Class A Type 1: -20 to +45 °C 25 bar(g) Internal diameter (mm): 40, 50 & 80  
Class A Type 2: +196 to +45 °C 13 bar(g) Internal diameter (mm): 40, 50 & 80  
Class B Type 1: -50 to +45 °C 20 bar(g) Internal diameter (mm): 150, 200 & 250  
Class B Type 2: +196 to +45 °C 10,5 bar(g) Internal diameter (mm): 150, 200 & 250  
Issued at Havik on 2017-07-06

This Certificate is valid until 2022-07-05.  
DNV GL local station: Barcelona  
Approval Engineer: Maheshraja Venkatesan

for DNV GL  
Digitally Signed by Marianne Spæren Marvang  
Approved on 2017-07-05  
Marianne Spæren Marvang  
Head of Section

This Certificate is subject to terms and conditions outlined. Any significant change in design or construction may render this Certificate invalid.  
The validity date refers to the Type Examination Certificate and not to the approval of equipment/containers available.

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**DNV-GL**  
Certificate No: P-15154  
File No: 791.74  
Job ID: 262.1-017366-1

**TYPE EXAMINATION CERTIFICATE**

This is to certify:  
That the Bulk Loading Hoses with Permanently Fitted Couplings  
with type designation(s)  
Gassoflex Marine Heavy Duty type EGE, GGE, SSE and SST

Manufactured by  
**COMERCIAL GASSO, S.A.**  
Sant Boi de Llobregat, Spain

is found to comply with  
International Code for the Construction and Equipment of Ships Carrying Dangerous Chemical in Bulk, 2007 Edition

**Application :**  
Can be used for loading/unloading of cargo ships according to the IBC code 2007 edition

Temperature range: -20°C to +100°C  
Max. working press.: 14 bar, 12 bar for SST  
Size: EGE, GGE and SST: 6", 8", 10" • SSE: 6" and 8"  
This Certificate is valid until 2019-06-30.  
Issued at Havik on 2019-01-23

DNV GL local station: Barcelona  
Approval Engineer: Tom Berg-Nielsen

for DNV GL  
Digitally Signed by Marianne Spæren Marvang  
Approved on 2019-01-23  
Marianne Spæren Marvang  
Head of Section

✓ EN 17365:2018

✓ EN 17366:2018



# Manufactured Products

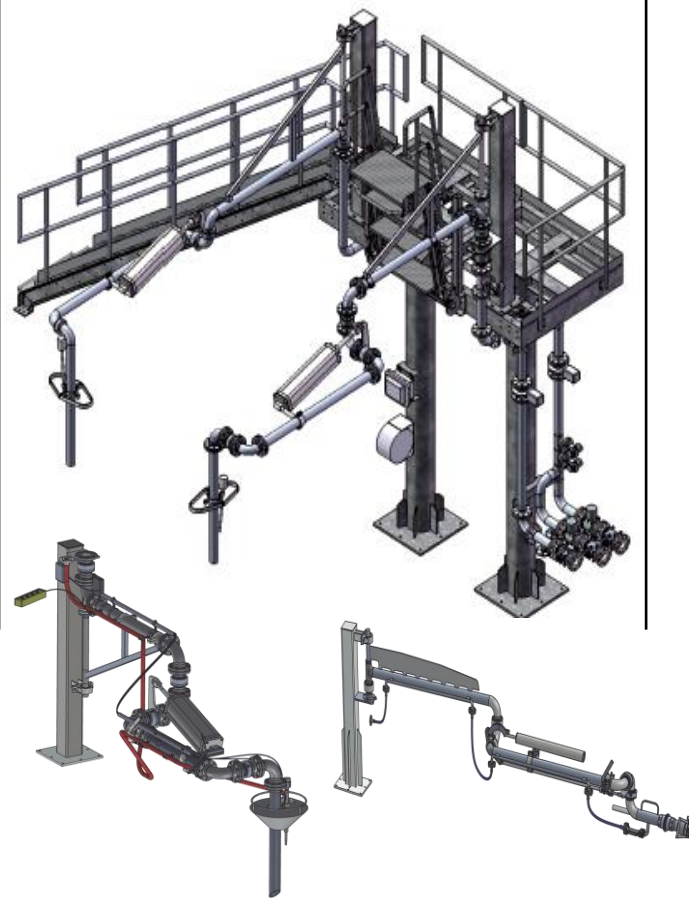
## COMPOSITE HOSES - PTFE AND SS HOSES



## COUPLINGS – BREAKAWAYS



## LOADINGS ARMS - FOLDING STAIRS - PLATFORMS



## TANK TRUCK EQUIPMENTS





# Marine: PORT TERMINAL /SHIP TO SHORE / HOSE TOWER

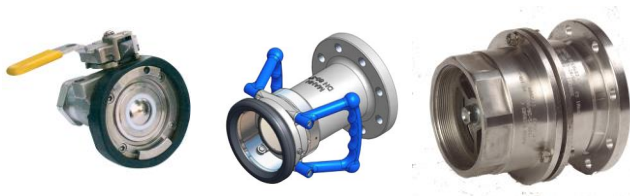
## **GASSOFLEX**

*Composite Hoses from  
6" to 10" inches*

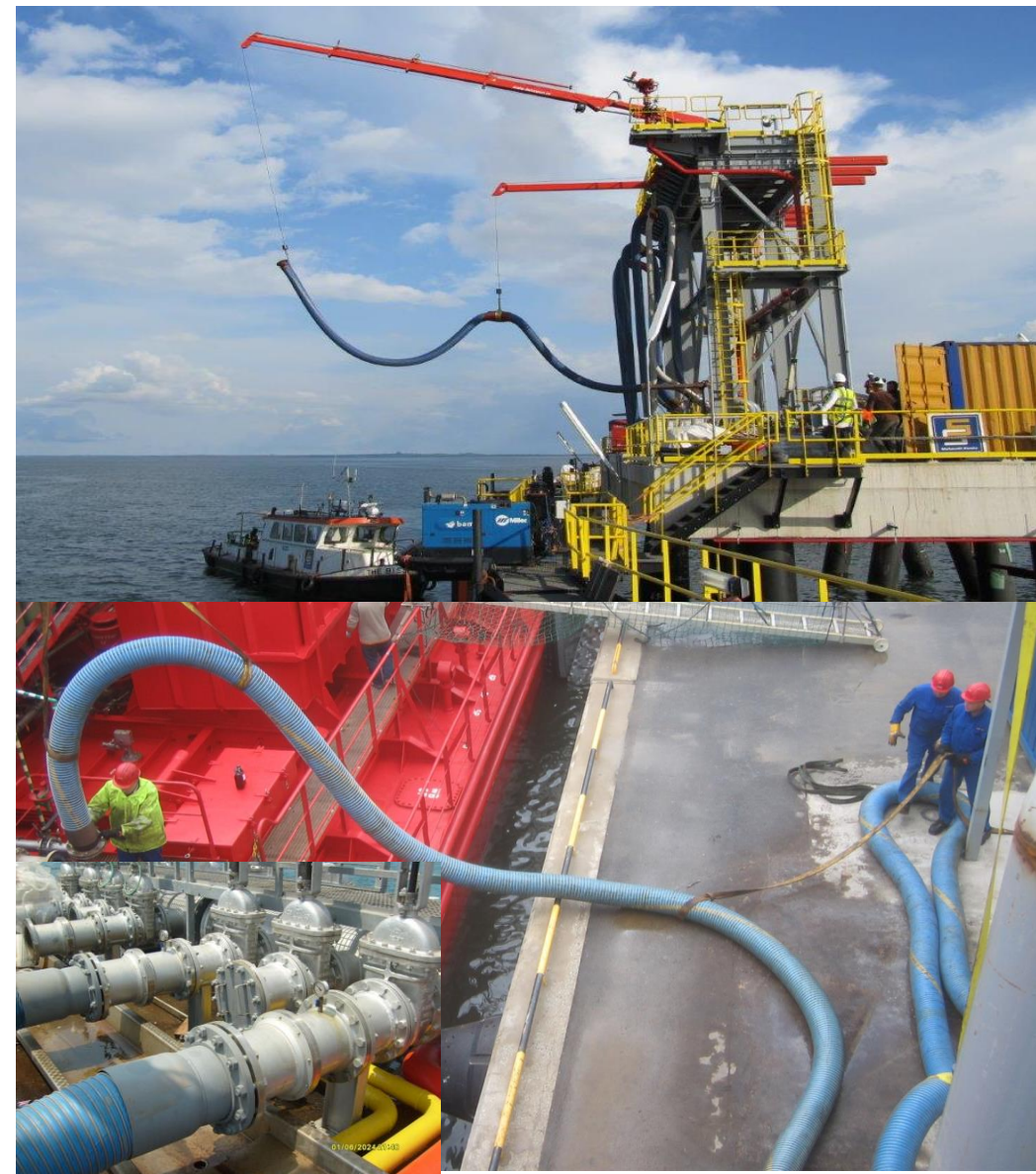
Hydrocarbons: **GGE, AAE**  
Chemicals: **EGE, SST**  
Cryogenic: **LPG, LNG**



## **DRY DISCONNECT BREAKAWAYS**



## **COUPLINGS & ACCESORIES**



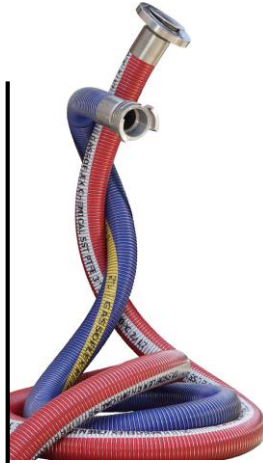


# Refinery & Chemical Industry

## GASSOFLEX

*Composite Hoses from  
1" to 10" inches*

Hydrocarbons: **GGE, AAE**  
Chemicals: **EGE, SST**  
Cryogenic: **LPG, LNG**



Pharmaceuticals, plastics,  
cosmetic, paint,  
agrochemicals,  
fragrances and flavors,  
industrial gases, cleaning  
products, etc.



## LOADING ARMS

TOP LOADING ARM  
BOTTOM LOADING ARM



## DRY DISCONNECT, BREAKAWAYS, COUPLINGS & ACCESORIES





# Storage: PORT & LAND TANK STORAGE / FLOATING ROOF TANK

## GASSOFLEX

*Composite Hoses from  
4" to 10" inches*

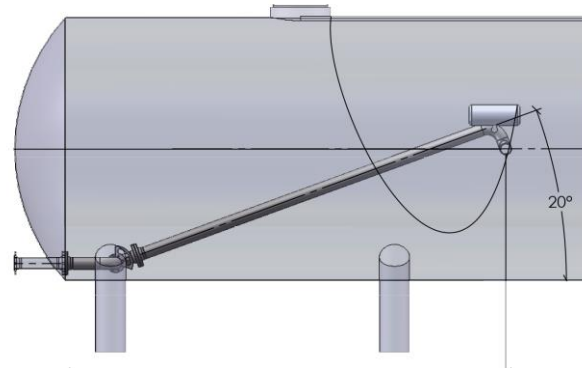
Hydrocarbons: **GGE, AAE**  
Chemicals: **EGE, SST**  
Cryogenic: **LPG, LNG**



## GASSOFLEX ROOF DRAIN



## FLOATING SUCTION ARM



## DRY DISCONNECT, BREAKAWAYS, COUPLINGS



# Distribution & Loading terminals:TRUCK & RAILWAY

## **GASSOFLEX**

*Composite Hoses from  
2" to 4" inches*

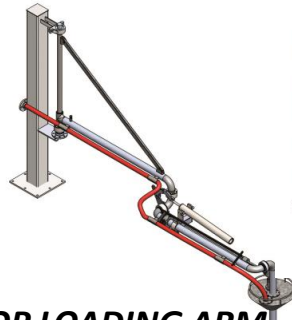
Hydrocarbons: **GGE, AAE**  
Chemicals: **EGE, SST**  
Cryogenic: **LPG, LNG**



**DRY DISCONNECT,  
BREAKAWAYS, COUPLINGS**



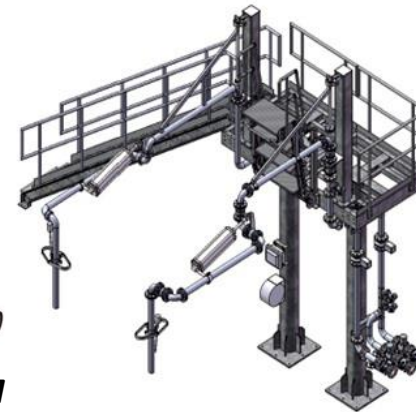
## **LOADING ARM, PLATFORMS, FOLDING STAIRS**



**TOP LOADING ARM**



**BOTTOM LOADING ARM**



## **TANK TRUCK EQUIPMENT**



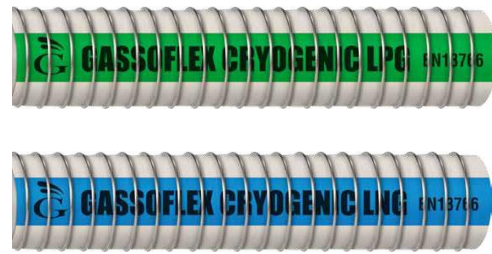


# CRYOGENIC: PORT, STORAGE & LOADING TERMINAL, TRUCK , RAILWAY

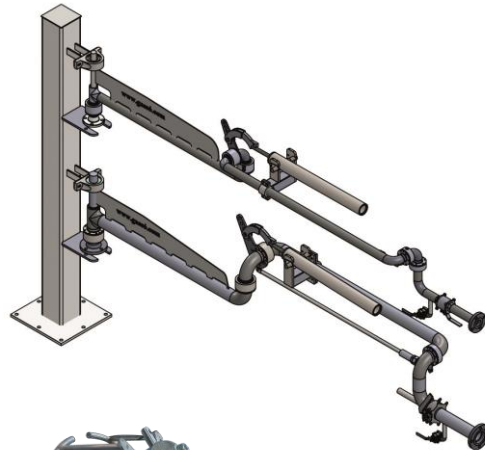
## **GASSOFLEX**

*Composite Hoses from  
2" to 10" inches*

Cryogenic: **LPG, LNG**



## **LPG LOADING ARM**



## **LNG and LPG BREAKAWAYS**



# SPECIALS: HIGH TEMP. / VAPOR RECOVERY / AVIATION

## **GASSOFLEX BITUMEN**

**HIGH TEMPERATURE**  
Composite Hoses from  
1" to 10" inches  
SSTP, SGTP, GGTP



## **GASSOFLEX VAPOR Recovery**

Composite Hoses from  
1" to 10" inches  
GGE



## **GASSOFLEX AVIATION**

Composite Hoses from  
2" to 6" inches



- USED IN INTERNAL TRANSFERS FROM TANK TO TRUCK