



## DOCK AND SHIP TO SHIP HOSE







## // ALFAGOMMA DOCK AND SHIP TO SHIP RANGE

ALFAGOMMA has developed a range of dock and ship to ship hoses to meet the strict regulations and International Standards of the Oil & Gas Industry.

Over 60 years of experience in hose Research, Development and production, assure the right product for our customers needs, in any demanding environmental condition.

ALFAGOMMA has the capability to manufacture in light, medium and heavy duty constructions suitable for conveying various fluid products.

### HOSE

The ALFAGOMMA dock range is especially designed to work safely in severe environmental circumstances:

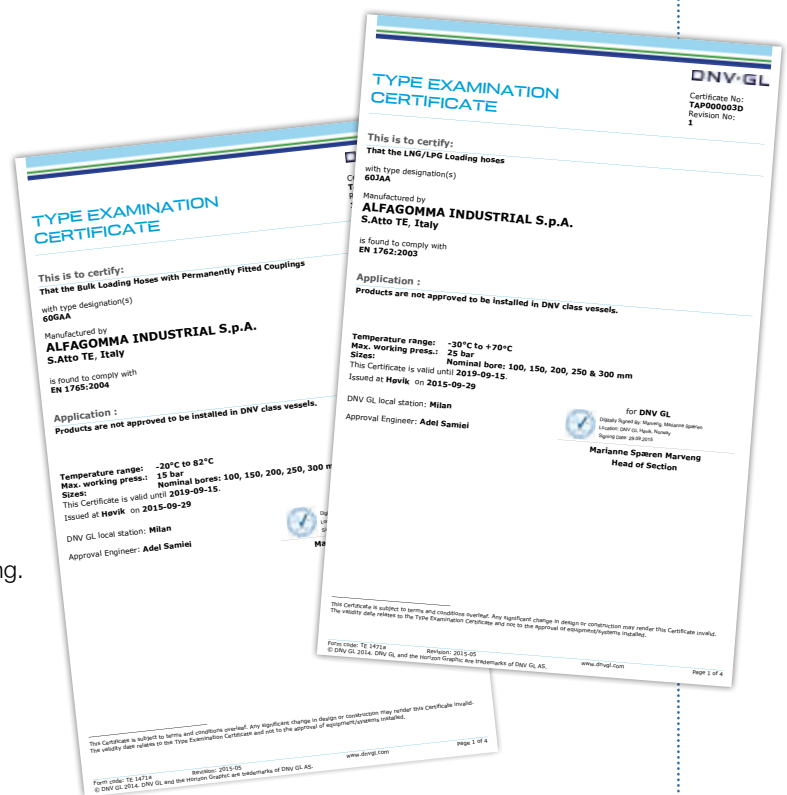
- ▲ OCIMF, EN 1765 and EN 1762 international standards
- ▲ DNV-GL certificate
- ▲ Special Safe lining design
- ▲ MBR up to 4 times the ID
- ▲ Technical support for testing and maintenance
- ▲ High axial load hose resistance

### BUILT-IN SAFE LINING DESIGN

This unique SAFE LINING DESIGN hose is available with built-in fittings.

These metal fittings are incorporated into the SAFE LINING construction during manufacture so as to maintain maximum holding power of the complete assembly.

The Safe Lining Design takes effect when the main lining suffers cuts, tearing or the occurrence of ageing.



## // 60DAA

**Fuel-oil S&D 10 bar (150 psi)  
EN 1765/S10****Tube:** black NBR.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** black CR- abrasion, ozone, sea water and hydrocarbon resistant.**Application:** crude oil and liquid petroleum products suction and delivery to/from tankers and bunkering vessels.

Max 55% aromatic content resistance. Electrically continuous (discontinuous on request).

Also available: 60EAA 100% aromatic content • 60FAA biofuel.

**Safety factor:** 4:1**Constant operation:** -20 °C +82 °C (-4 °F +180 °F)**Diameters:** From 4" to 12"**Built-in steel nipples with fixed or swivel flanges.**

## // 64AAA

**Fuel-oil delivery 10 bar (150 psi)  
EN 1765/L10****Tube:** black NBR.**Reinforcement:** high tensile textile cords.**Cover:** black CR- abrasion, ozone, sea water and hydrocarbon resistant.**Application:** crude oil and liquid petroleum products delivery to/from tankers and bunkering vessels. Max 55% aromatic content resistance.

Electrically continuous (discontinuous on request).

**Safety factor:** 4:1

Also available: 64BAA 100% aromatic content • 64CAA biofuel.

**Constant operation:** -20 °C +82 °C (-4 °F +180 °F)**Diameters:** From 4" to 12"**Built-in steel nipples with fixed or swivel flanges.**

## // 60NAA

**Fuel-oil S&D 15 bar (225 psi)  
EN 1765/S15****Tube:** black NBR.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** black CR- abrasion, ozone, sea water and hydrocarbon resistant.**Application:** crude oil and liquid petroleum products suction and delivery to/from tankers and bunkering vessels.

Max 55% aromatic content resistance. Electrically continuous (discontinuous on request).

**Safety factor:** 4:1**Constant operation:** -20 °C +82 °C (-4 °F +180 °F)**Diameters:** From 3" to 6"**Available with swaged fittings.**

## // 60GAA

**Fuel-oil S&D 15 bar (225 psi)  
EN 1765/S15****Tube:** black NBR.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** black CR- abrasion, ozone, sea water and hydrocarbon resistant.**Application:** crude oil and liquid petroleum products suction and delivery to/from tankers and bunkering vessels.

Max 55% aromatic content resistance. Electrically continuous (discontinuous on request).

**Built-in steel nipples with fixed or swivel flanges.**

Also available: 60HAA 100% aromatic content • 60IAA biofuel.

**Safety factor:** 4:1**Constant operation:** -20 °C +82 °C (-4 °F +180 °F)**Diameters:** From 4" to 12"**Built-in steel nipples with fixed or swivel flanges.**

Dimensions shown may be changed without prior notice

**// 64DAA****Fuel-oil delivery 15 bar (225 psi)  
EN 1765/L15****Tube:** black NBR.**Reinforcement:** high tensile textile cords.**Cover:** black CR- abrasion, ozone, sea water and hydrocarbon resistant.**Application:** crude oil and liquid petroleum products delivery to/from tankers and bunkering vessels. Specially designed for STS operations. Max 55% aromatic content resistance. Electrically continuous (discontinuous on request).

Also available: 64EAA 100% aromatic content • 64FAA biofuel.

**Safety factor:** 4:1**Constant operation:** -20 °C +82 °C (-4 °F +180 °F)**Diameters:** From 4" to 12"**Built-in steel nipples with fixed or swivel flanges.****// 60JAA****LPG suction & delivery - 25 bar (375 psi)  
EN 1762: 2003 Type SD / M****Tube:** black NBR.**Reinforcement:** high tensile textile cords with embedded steel helix wires.**Cover:** black CR - abrasion, ozone, salt water and hydrocarbon resistant - pin pricked.**Application:** LPG transfer in onshore and offshore applications. Also suitable for fuel and oil transfer max 55% aromatic content resistance. Electrically continuous (discontinuous on request).**Safety factor:** 4:1**Constant operation:** -30 °C +70 °C (-22 °F +158 °F)**Diameters:** From 4" to 12"**Built-in steel nipples with fixed or swivel flanges.****// 60PAA****Fuel-oil S&D 20 bar (300 psi) - Heavy duty  
WP exceeds EN 1765/S15****Tube:** black NBR.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** black CR - abrasion, ozone, sea water and hydrocarbon resistant.**Application:** fuel and oil suction and delivery. Designed for long service life in heavy duty applications. Also suitable for bunkering service. Electrically continuous (discontinuous on request).**Safety factor:** 3:1**Constant operation:** -20 °C +82 °C (-4 °F +180 °F)**Diameters:** From 3" to 12"**Available with swaged fittings.****// 64PAA****Fuel-oil delivery 20 bar (300 psi) - Heavy duty  
WP exceeds EN 1765/L15****Tube:** black NBR.**Reinforcement:** high tensile textile cords.**Cover:** black CR - abrasion, ozone, sea water and hydrocarbon resistant.**Application:** fuel and oil delivery. Designed for long service life in heavy duty applications. Also suitable for bunkering service. Electrically continuous (discontinuous on request).**Safety factor:** 3:1**Constant operation:** -20 °C +82 °C (-4 °F +180 °F)**Diameters:** From 3" to 8"**Available with swaged fittings.**

## // 6N511 EN

**Fuel - Oil S&D - heavy duty  
EN 13765 - arrêté TMD****Inner wire:** Galvanised steel wire**Tube:** Polypropylene film**Cover:** Blue PVC coated fabric with longitudinal yellow stripe**Outer wire:** Galvanised steel wire**Use:** Fuel and Oil suction and delivery to/from tankers and bunkering vessels**Safety factor:** 5:1**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)**Electrical Conductivity:** Ensured by the 2 wires in contact with fittings**Electrical Resistance:** ≤ 2.5 Ohm/mt up to DN 50mm (2");

≤ 1 Ohm/mt over DN 50mm (2")

**Diameters:** From 6" to 12"**Available connection:**

- Male BSPP
- Male NPT
- Fixed and Swivel Flange

## // 5N551 EN

**Acid-Chemical S&D - heavy duty  
EN 13765 - arrêté TMD****Inner wire:** Polypropylene coated steel wire**Tube:** Polypropylene film**Cover:** Black PVC coated fabric with longitudinal white stripe**Outer wire:** Galvanised steel wire**Use:** Acid and Chemical suction and delivery to/from tankers and bunkering vessels**Safety factor:** 5:1**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)**Electrical Conductivity:** Ensured by the 2 wires in contact with fittings**Electrical Resistance:** ≤ 2.5 Ohm/mt up to DN 50mm (2");

≤ 1 Ohm/mt over DN 50mm (2")

**Diameters:** From 6" to 10"**Available connection:**

- Male BSPP
- Male NPT
- Fixed and Swivel Flange

## // 5N331 EN

**Acid-Chemical S&D - heavy duty - PTFE  
EN 13765 - arrêté TMD****Inner wire:** Stainless Steel 316 wire**Tube:** PTFE film**Cover:** Red PVC coated fabric with longitudinal white stripe**Outer wire:** Galvanised steel wire**Use:** Acid and Chemical suction and delivery to/from tankers and bunkering vessels**Safety factor:** 5:1**Constant operation:** -30 °C +100 °C (-22 °F +212 °F)**Electrical Conductivity:** Ensured by the 2 wires in contact with fittings**Electrical Resistance:** ≤ 2.5 Ohm/mt up to DN 50mm (2");

≤ 1 Ohm/mt over DN 50mm (2")

**Diameters:** From 6" to 12"**Available connection:**

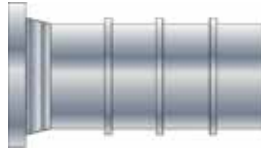
- Male BSPP
- Male NPT
- Fixed and Swivel Flange

Dimensions shown may be changed without prior notice

## // BUILT-IN FITTINGS

Built-in fittings are available with welding neck, slip on and swivel flanges.  
Nipple material selected according to international standards and customer request.

- ▲ Plated Carbon Steel
- ▲ Low Temperature Steel
- ▲ Stainless Steel



## // FIXED AND SWIVEL FLANGES

Flanges are available in the most common materials according to International standards and suitable for dock and offshore applications:

- ▲ ASTM A105
- ▲ ASTM A350 GR. LF2
- ▲ ASTM A182 GR. F316

	FIXED		SWIVEL		
Welding Neck			Lap Joint		
Slip-on					

ALFAGOMMA offers a complete range of flange faces for built-in and swaged fittings:

- ▲ Flat Face (FF)
- ▲ Raised Face (RF)
- ▲ Ring Type Joint (RTJ)



**HEADQUARTER**

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