










SHIPBUILDING & MILITARY



Standards & Regulations

 <p>3-A Sanitary Standards Inc.</p>	 <p>Decreto Ministeriale</p>	 <p>European Commission</p>	 <p>Energy Institute</p>
 <p>European Norms</p>	 <p>Food and Drug Administration</p>	 <p>International Organization for Standardization</p>	 <p>Marine Equipment Directive</p>
 <p>Society of Automotive Engineers</p>	 <p>TMD decree</p>	 <p>U.S. Department of Defence</p>	 <p>U.S. Coast Guard – SAE J1942</p>

Approvals & Certificates

 <p>American Bureau of Shipping</p>	 <p>American Petroleum Institute</p>	 <p>Bureau Veritas</p>	 <p>China Classification Society</p>
 <p>Chinese Mining</p>	 <p>Det Norske Veritas Germanischer Lloyd</p>	 <p>Dreal</p>	 <p>Korean Register</p>
 <p>Lloyd's Register</p>	 <p>Registro Italiano Navale</p>	 <p>United States Department of Transportation</p>	 <p>U.S. Mine Safety and Health Administration</p>

ALFAGOMMA

Since 1956 ALFAGOMMA has been manufacturing and delivering top quality products all over the world.

ALFAGOMMA believe in the importance of offering an excellent service to all its customers along with a continuous new product research and development, a constant high quality exceeding ISO 9001 quality standards and full compliance with ISO 14001 environmental norms, as well as a constantly upgrading range of Type Approvals.

ALFAGOMMA GROUP

23

MANUFACTURING
PLANTS

IN 11 COUNTRIES

ITALY – FINLAND
FRANCE – GERMANY
SWEDEN – UK
USA – BRAZIL – MEXICO
CHINA – MALAYSIA

85

SUBSIDIARIES AND
ASSEMBLY PLANTS

IN 23 COUNTRIES
AND
5 CONTINENTS

ISO

QUALITY
CERTIFICATION

ISO 9001
since 1993
ISO 14001
since 1999
ISO 45001
in progress

3915

EMPLOYEES

AROUND
THE WORLD

 ALFAGOMMA //  DUNLOPHIFLEX //  HIFLEX //  ARGUS





// SHIPBUILDING & MILITARY

HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
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HYDRAULICS

// WIRED BRAID





 <p>// FLEXOPAK 1SC High pressure hydraulic lines. One high tensile steel braid.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • EN 857 1SC • ISO 11237 • MED 2014/90/EU 	
 <p>// AT3K - MT High pressure hydraulic lines. One high tensile steel braid. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • EN 855 - ø 3/8" • ISO 11237 • ALFAGOMMA proprietary hose 	
 <p>// FLEXOR 1SN/R1AT - MT High pressure hydraulic lines. One high tensile steel braid. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) • CO₂ SYSTEMS JUST HOSE ASSEMBLIES WITH AD1 COUPLINGS UP TO SIZE 1" 	<ul style="list-style-type: none"> • SAE 100 R1AT • EN 853 1SN • MED 2014/90/EU • SAE J1942 	
 <p>// FLEXOR 5 Medium pressure hydraulic lines. One high tensile steel braid.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • SAE 100 R5 	
 <p>// FLEXOPAK 2 - MT High pressure hydraulic lines. Two high tensile steel braids. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • SAE 100 R16 • EN 857 2SC • ISO 11237 • MED 2014/90/EU • SAE J1942 	






HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
 <p>// FLEXOR 2SN/R2AT - MT High pressure hydraulic lines. Two high tensile steel braids. Minetuff cover.</p>	<ul style="list-style-type: none"> • HYDRAULIC FLUID HAVING A FLASH POINT HIGHER THAN 150 °C (302 °F) (closed cup test) • AIR AND COMPRESSED AIR • SEA AND FRESH WATER • CO₂ FIRE EXTINGUISHING SYSTEMS • SANITARY SYSTEMS 	<ul style="list-style-type: none"> • SAE 100 R2AT • EN 853 2SN • MED 2014/90/EU • SAE J1942 	
 <p>// ALFAFOREST High pressure hydraulic lines. Three high tensile steel braids.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • MED 2014/90/EU • ALFAGOMMA proprietary hose 	

// WIRED SPIRAL







 <p>// BOP - FIRESAFE 5000 High pressure hydraulic lines in blow out preventer system. Four/six high tensile steel spirals. Isobaric hose.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • API 16-D • ALFAGOMMA proprietary hose 	
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// ALFABIOTECH

 <p>// ALFABIOTECH 3000 - MT Very high performance in pressure, pulsing and flexing. Four/six high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • exceeds SAE R12 • ALFAGOMMA proprietary hose 	
 <p>// ALFABIOTECH 4000 - MT Very high performance in pressure, pulsing and flexing. Four high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • MED 2014/90/EU • SAE J1942 	

HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
 <p>// ALFABIOTECH 5000 - MT Very high performance in pressure, pulsing and flexing. Four/six high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • MED 2014/90/EU • SAE J1942 	
 <p>// ALFABIOTECH 5000 PLUS - MT Very high performance in pressure, pulsing and flexing. Four high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • MED 2014/90/EU • SAE J1942 	
 <p>// ALFABIOTECH 6000 - MT Very high performance in pressure, pulsing and flexing. Four/six high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • exceeds SAE R15 • MED 2014/90/EU • SAE J1942 	



// ALFABIOTECH EVOLUTION *NEW*

 <p>// ALFABIOTECH EVOLUTION 3000 - MT Very high performance in pressure, pulsing and flexing. Improved bend radius. Four high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • exceeds SAE R12 • ALFAGOMMA proprietary hose • SAE J1942 	
 <p>// ALFABIOTECH EVOLUTION 4000 - MT Very high performance in pressure, pulsing and flexing. Improved bend radius. Four high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • MED 2014/90/EU • SAE J1942 	
 <p>// ALFABIOTECH EVOLUTION 5000 - MT Very high performance in pressure, pulsing and flexing. Improved bend radius. Four/six high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • MED 2014/90/EU • SAE J1942 	

HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
 <p>// ALFABIOTECH EVOLUTION 5000 PLUS - MT Very high performance in pressure, pulsing and flexing. Improved bend radius. Four high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • MED 2014/90/EU • SAE J1942 	 
 <p>// ALFABIOTECH EVOLUTION 6000 - MT Very high performance in pressure, pulsing and flexing. Improved bend radius. Four/six high tensile steel spirals. Isobaric hose. Minetuff cover.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • exceeds SAE R15 • MED 2014/90/EU • SAE J1942 	 
// SUPERTUFF			
 <p>// ALFABIOTECH 5000 - ST Very high performance in pressure, pulsing and flexing. Four high tensile steel spirals. Isobaric hose. Supertuff cover for excellent abrasion resistance.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • SAE J1942 	     
 <p>// ALFABIOTECH 6000 - ST Very high performance in pressure, pulsing and flexing. Four/six high tensile steel spirals. Isobaric hose. Supertuff cover for excellent abrasion resistance.</p>	<ul style="list-style-type: none"> • PETROLEUM BASED -40 °C +100 °C (-40 °F +212 °F) • WATER BASED HYDRAULIC FLUIDS -40 °C +70 °C (-40 °F +158 °F) • WATER AND AIR 0 °C +70 °C (32 °F +158 °F) 	<ul style="list-style-type: none"> • ISO 18752 • exceeds SAE R15 • MED 2014/90/EU • SAE J1942 	     
// HIGH TEMPERATURE			
 <p>// R5 EVOLUTION HT 150 Medium pressure hydraulic lines. Specially designed for high temperature applications. One high tensile steel braid.</p>	<ul style="list-style-type: none"> • HYDRAULIC LINES -40 °C +150 °C (-40 °F +302 °F) • FUEL OIL • ANTIFREEZE SOLUTIONS • AIR AND WATER SYSTEMS 	<ul style="list-style-type: none"> • SAE R5 	
 <p>// 1SN EVOLUTION HT 150 High pressure hydraulic lines. Specially designed for high temperature applications. One high tensile steel braid. Not recommended for steam service.</p>	<ul style="list-style-type: none"> • HYDRAULIC LINES -40 °C +150 °C (-40 °F +302 °F) • FUEL OIL • ANTIFREEZE SOLUTIONS • AIR AND WATER SYSTEMS 	<ul style="list-style-type: none"> • SAE 100 R1AT • EN 853 1SN • ISO 1436-1 • MED 2014/90/EU • ALFAGOMMA proprietary hose 	  




HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
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// OIL RETURN LINES







 <p>// FLEXOR R4 Suction and delivery. Textile reinforced with embedded steel helix wires.</p>	<ul style="list-style-type: none"> • HYDRAULIC LINES -40 °C +100 °C (-40 °F +212 °F) • FUEL OIL • ANTIFREEZE SOLUTIONS • AIR AND WATER 	<ul style="list-style-type: none"> • SAE 100 R4 	
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PETROCHEMICAL

 <p>// 605AA Fuel-oil S&D 10 bar (150 psi) Safety factor: 3:1 ID range: 19 - 203 mm (3/4 - 8") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • FUELS max 50% aromatic content • OILS • BILGE WATER • FRESH WATER • SEA WATER 	<ul style="list-style-type: none"> • exceed SAE 100R4 • SAE J2006 Style R2 • ISO 13363 Type 2 Class B • Flame resistance: MSHA 	
 <p>// 658AA Measured fuel dispensing systems 16 bar (240 psi) Safety factor: 3:1 ID range: 25 - 51 mm (1 - 2") Temperature range: -30 +55 °C (-22 +131 °F)</p>	<ul style="list-style-type: none"> • FUELS max 50% aromatic content • OXIGENATED FUELS max 15% • OILS • BILGE WATER • FRESH WATER • SEA WATER 	<ul style="list-style-type: none"> • EN 1360 Type 1 Grade Ω • TMD decree • Flame resistance: according to reference standard 	
 <p>// 619AA Fuel-oil S&D 16 bar (240 psi) Safety factor: 4:1 ID range: 19 - 102 mm (3/4 - 4") Temperature range: -30 +70 °C (-22 +158 °F)</p>	<ul style="list-style-type: none"> • FUELS max 50% aromatic content • OXIGENATED FUELS max 15% • OILS • BILGE WATER • FRESH WATER • SEA WATER 	<ul style="list-style-type: none"> • EN 12115 Type SD Grade Ω/T • exceed EN 1761 Type SD Grade Ω • TMD decree • Flame resistance: according to reference standard 	
 <p>// 65AAA Aviation fuelling 10 bar (150 psi) Safety factor: 4:1 ID range: 38 mm (1 1/2") Temperature range: -30 +65 °C (-22 +150 °F)</p>	<ul style="list-style-type: none"> • AVIATION FUELS max 30% aromatic content 	<ul style="list-style-type: none"> • EI 1529 Grade 1 Type C • Flame resistance: according to reference standard 	
 <p>// 656AA Aviation fuelling 20 bar (300 psi) Safety factor: 4:1 ID range: 25 - 102 mm (1 - 4") Temperature range: -30 +65 °C (-22 +150 °F)</p>	<ul style="list-style-type: none"> • AVIATION FUELS max 30% aromatic content 	<ul style="list-style-type: none"> • ISO 1825 Type C Grade Ω • EI 1529 Grade 2 • Flame resistance: NFPA 407 	





HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
 <p>// 611AA Aviation fuelling-defuelling 20 bar (300 psi) Safety factor: 4:1 ID range: 25 - 75 mm (1 - 3") Temperature range: -30 +65 °C (-22 +150 °F)</p>	<ul style="list-style-type: none"> • AVIATION FUELS max 30% aromatic content 	<ul style="list-style-type: none"> • ISO 1825 Type F Grade Ω • Flame resistance: according to reference standard 	
 <p>// 659AA LPG delivery 25 bar (375 psi) Safety factor: 4:1 ID range: 13 - 51 mm (1/2 - 2") Temperature range: -30 +70 °C (-22 +158 °F)</p>	<ul style="list-style-type: none"> • LPG 	<ul style="list-style-type: none"> • EN 1762 Type D Grade M • TMD decree • Flame resistance: according to reference standard 	

MARINE







 <p>// 653AA Marine exhaust - Soft wall Working pressure: 3 bar (45 psi) Safety factor: 5:1 ID range: 25 - 203 mm (1 - 8") Temperature range: -30 +100 °C (-22 +212 °F)</p>	<ul style="list-style-type: none"> • WET EXHAUST • BILGE WATER • FUELS max 40% aromatic content • OILS 	<ul style="list-style-type: none"> • SAE J2006 Style R1 • ISO 13363 Type 1 Class B 	
 <p>// 6E1AA Marine exhaust - Hard wall Working pressure: 3 bar (45 psi) Safety factor: 5:1 ID range: 25 - 203 mm (1" - 8") Temperature range: -30 +100 °C (-22 +212 °F)</p>	<ul style="list-style-type: none"> • WET EXHAUST • BILGE WATER • FUELS max 40% aromatic content • OILS 	<ul style="list-style-type: none"> • SAE J2006 Style R1 • ISO 13363 Type 1 Class B 	
 <p>// 266LL Marine sanitary hose - PVC Working pressure: 8 - 6 bar (24 - 18 psi) Safety factor: 3:1 ID range: 19 - 38 mm (3/4 - 1 1/2") Temperature range: -5 + 60 °C (+23 +140 °F)</p>	<ul style="list-style-type: none"> • GREY-BLACK WATER 		
 <p>// 202LL Marine sanitary hose 7 bar (100 psi) Safety factor: 3:1 ID range: 19 - 51 mm (3/4 - 2") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • GREY-BLACK WATER 	<ul style="list-style-type: none"> • ISO 8099 	










HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
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OIL & GAS - DOCK



 <p>// 60GAA Fuel-oil S&D 15 bar (225 psi) - Built in fittings</p> <p>Safety factor: 4:1 ID range: 100 - 300 mm (4 - 12") Temperature range: -20 +82 °C (-4 +180 °F)</p>	<ul style="list-style-type: none"> • PETROLEUM PRODUCTS max 50% aromatic content • CRUDE OIL 	<ul style="list-style-type: none"> • EN 1765 Type S15 	
 <p>// 60JAA LPG S&D 25 bar (375 psi) - Built in fittings</p> <p>Safety factor: 4:1 ID range: 100 - 300 mm (4 - 12") Temperature range: -30 +70 °C (-22 +158 °F)</p>	<ul style="list-style-type: none"> • LPG 	<ul style="list-style-type: none"> • EN 1762 Type SD Grade M 	

OIL & GAS - RIG SUPPLY

 <p>// 648AA Fuel-liquid mud 20 bar (300 psi) - Soft wall</p> <p>Safety factor: 4:1 ID range: 51 -152 mm (2 - 6") Temperature range: -30 + 90 °C (-22 + 194 °F)</p>	<ul style="list-style-type: none"> • PETROLEUM PRODUCTS max 50% aromatic content • METHANOL • OIL BASED MUD • DRILL WATER • FRESH WATER • SEA WATER 	<ul style="list-style-type: none"> • Flame resistance: EN 1762 - Annex A 	 ABS Type approved hose assemblies
 <p>// 615AA Fuel-liquid mud 20 bar (300 psi) - Hard wall</p> <p>Safety factor: 4:1 ID range: 51 - 152 mm (2 - 8") Temperature range: -30 + 90 °C (-22 + 194 °F)</p>	<ul style="list-style-type: none"> • PETROLEUM PRODUCTS max 50% aromatic content • METHANOL • OIL BASED MUD • DRILL WATER • FRESH WATER • SEA WATER 	<ul style="list-style-type: none"> • Flame resistance: EN 1762 - Annex A 	 ABS Type approved hose assemblies
 <p>// 622AA Fuel-liquid mud - Hard wall</p> <p>Working pressure: 40 bar (600 psi) - 35 bar (535 psi) depending on ID</p> <p>Safety factor: 4:1 ID range: 76 - 127 mm (3 - 5") Temperature range: -30 + 90 °C (-22 + 194 °F)</p>	<ul style="list-style-type: none"> • PETROLEUM PRODUCTS max 50% aromatic content • METHANOL • OIL BASED MUD • DRILL WATER • FRESH WATER • SEA WATER 	<ul style="list-style-type: none"> • Flame resistance: EN 1762 - Annex A 	 ABS Type approved hose assemblies





HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
 <p>// 748AA Bulk material 20 bar (300 psi) - Soft wall Safety factor: 4:1 ID range: 102 - 127 mm (4 - 5") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • CEMENT • BARITE • MUD • FRESH WATER • SEA WATER 		 ABS Type approved hose assemblies
 <p>// 715AA Bulk material 20 bar (300 psi) - Hard wall Safety factor: 4:1 ID range: 102 - 127 mm (4 - 5") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • CEMENT • BARITE • MUD • FRESH WATER • SEA WATER 		 ABS Type approved hose assemblies
 <p>// 448LI Potable water 20 bar (300 psi) - Soft wall Safety factor: 4:1 ID range: 51 - 102 mm (2 - 4") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • POTABLE WATER 		 ABS Type approved hose assemblies
 <p>// 415LI Potable water 20 bar (300 psi) - Hard wall Safety factor: 4:1 ID range: 51 - 102 mm (2 - 4") Temperature range: 30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • POTABLE WATER 		 ABS Type approved hose assemblies
 <p>// RIGMASTER WATER HD Water S&D 20 bar (300 psi) - Heavy Duty Safety factor: 3:1 ID range: 102 mm (4") Temperature range: -30 + 90 °C (-22 + 194 °F)</p>	<ul style="list-style-type: none"> • FRESH WATER • SEA WATER • GLYCOLE 		

OIL & GAS - FIRE FIGHTING

 <p>// 230AH Sea water - 20 bar (300 psi) Fire Resistant 30 minutes 800 °C Safety factor: 5:1 ID range: 32 - 203 mm (1 1/4 - 8") Temperature range: -30 + 100 °C (-22 +212 °F)</p>	<ul style="list-style-type: none"> • SEA WATER • PETROLEUM PRODUCTS max 50% aromatic content 	<ul style="list-style-type: none"> • Flame resistance: ISO 15540 	 ABS Type approved hose assemblies
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HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
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FOOD & BEVERAGES

 <p>// 455LE Liquid food delivery 10 bar (150 psi) Safety factor: 3:1 ID range: 13 - 51 mm (1/2 - 2") Temperature range: -30 + 100 °C (-22 +212 °F)</p>	<ul style="list-style-type: none"> POTABLE WATER LIQUID FOOD 	<ul style="list-style-type: none"> FDA 3-A Sanitary Standards D.M. 21/03/73 EC 2004/1935 EC 2006/2023 	 <p>ø 13 mm RINA Type approved hose assembly according to D.M. 174/2004</p>
 <p>// 405LE Liquid food S&D 10 bar (150 psi) Safety factor: 3:1 ID range: 19 - 102 mm (3/4 - 4") Temperature range: -30 + 100 °C (-22 +212 °F)</p>	<ul style="list-style-type: none"> POTABLE WATER LIQUID FOOD 	<ul style="list-style-type: none"> FDA 3-A Sanitary Standards D.M. 21/03/73 EC 2004/1935 EC 2006/2023 	 <p>ø 19 - 38 mm RINA Type approved hose assembly according to D.M. 174/2004</p>

MILITARY & DEFENCE

 <p>// 6M0AJ Lightweight liquid fuel transfer - Collapsible - Antistatic wire Working pressure: 5 bar (75 psi) Safety factor: 4:1 ID range: 51 mm (2") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> KEROSENE BASED PETROLEUM FUEL WATER 	<ul style="list-style-type: none"> MIL-PRF-53064 	
 <p>// 6M1AA Liquid fuel transfer - Collapsible - Antistatic wire Working pressure: 9 - 5 bar (125 - 75 psi) depending on ID Safety factor: 4:1 ID range: 38 -76 m (1 1/2 - 3") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> KEROSENE BASED PETROLEUM FUEL WATER 	<ul style="list-style-type: none"> MIL-PRF-370 Type A 	
 <p>// 6M1AJ Liquid fuel transfer - Collapsible - Antistatic wire Working pressure: 7 bar (100 psi) Safety factor: 4:1 ID range: 51 mm (2") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> KEROSENE BASED PETROLEUM FUEL WATER 	<ul style="list-style-type: none"> MIL-PRF-370 Type A 	
 <p>// 6A1AA Liquid fuel transfer - Non collapsible - Antistatic wire Working pressure: 5 - 9 bar (75 - 125 psi) depending on ID Safety factor: 4:1 ID range: 38 - 152 mm (1 1/2 - 6") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> KEROSENE BASED PETROLEUM FUEL WATER 	<ul style="list-style-type: none"> MIL-PRF-370 Type B 	

HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
 <p>// 6A1AJ Liquid fuel transfer - Non collapsible - Antistatic wire</p> <p>Working pressure: 5 - 9 bar (75 - 125 psi) depending on ID Safety factor: 4:1 ID range: 38 - 102 mm (1 1/2 - 4") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • KEROSENE BASED PETROLEUM FUEL • WATER 	<ul style="list-style-type: none"> • MIL-PRF-370 Type B 	
 <p>// 6M3AA Fuel handling system - Collapsible - Antistatic wire</p> <p>Working pressure: 10 bar (150 psi) Safety factor: 4:1 ID range: 76 - 152 mm (3 - 6") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • PETROLEUM FUELS 	<ul style="list-style-type: none"> • MIL-PRF-11588 Type III • MIL-DTL-22240 Type A 	
 <p>// 6M4AA Liquid petroleum fuels, dispensing - Collapsible</p> <p>Working pressure: 7 bar (100 psi) Safety factor: 4:1 ID range: 51 mm (2") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • AUTOMOTIVE GASOLINE • AVIATION GASOLINE • JET FUELS • DIESEL FUELS 	<ul style="list-style-type: none"> • MIL-H-82127 (for replacement purpose only) 	
 <p>// 6A3AA Gasoline and jet fuel S&D</p> <p>Working pressure: 7 bar (100 psi) Safety factor: 4:1 ID range: 51 - 76 mm (2 - 3") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • AROMATIC GASOLINE • JET FUELS • DEMINERALIZED WATER 	<ul style="list-style-type: none"> • MIL-DTL-27516 	
 <p>// 65AAA Aviation fuelling 10 bar (150 psi)</p> <p>Safety factor: 4:1 ID range: 38 mm (1 1/2") Temperature range: -30 +65 °C (-22 +150 °F)</p>	<ul style="list-style-type: none"> • PETROLEUM FUELS max 30% aromatic content 	<ul style="list-style-type: none"> • EI 1529 Grade 1 Type C • Flame resistance: according to reference standard 	
 <p>// 656AA Aviation fuelling 20 bar (300 psi)</p> <p>Safety factor: 4:1 ID range: 25 - 102 mm (1 - 4") Temperature range: -30 +65 °C (-22 +150 °F)</p>	<ul style="list-style-type: none"> • PETROLEUM FUELS max 30% aromatic content 	<ul style="list-style-type: none"> • ISO 1825 Type C Grade Ω • EI 1529 Grade 2 • Flame resistance: NFPA 407 	
 <p>// 611AA Aviation fuelling-defuelling 20 bar (300 psi)</p> <p>Safety factor: 4:1 ID range: 25 - 75 mm (1 - 3") Temperature range: -30 +65 °C (-22 +150 °F)</p>	<ul style="list-style-type: none"> • AVIATION FUELS max 30% aromatic content 	<ul style="list-style-type: none"> • ISO 1825 Type F Grade Ω • Flame resistance: according to reference standard 	

HOSE DESCRIPTION	APPLICATION & FLUID COMPATIBILITY	STANDARDS & REGULATIONS	APPROVALS & CERTIFICATES
 <p>// 456LJ Potable water discharge Working pressure: 7 bar (100 psi) Safety factor: 4:1 ID range: 25 - 102 mm (1 - 4") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • POTABLE WATER 	<ul style="list-style-type: none"> • A-A-59567 Grade 3 Class 2 	
 <p>// 406LA Potable water S&D Working pressure: 5 bar (75 psi) Safety factor: 4:1 ID range: 51 mm (2") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • POTABLE WATER 	<ul style="list-style-type: none"> • A-A-59566 Grade A Style A Class 2 	
 <p>// 406LJ Potable water S&D Working pressure: 5 bar (75 psi) Safety factor: 4:1 ID range: 51 - 102 mm (2 - 4") Temperature range: -30 +80 °C (-22 +176 °F)</p>	<ul style="list-style-type: none"> • POTABLE WATER 	<ul style="list-style-type: none"> • A-A-59566 Grade A Style A Class 2 	



HEADQUARTER

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