



ALFAGOMMA

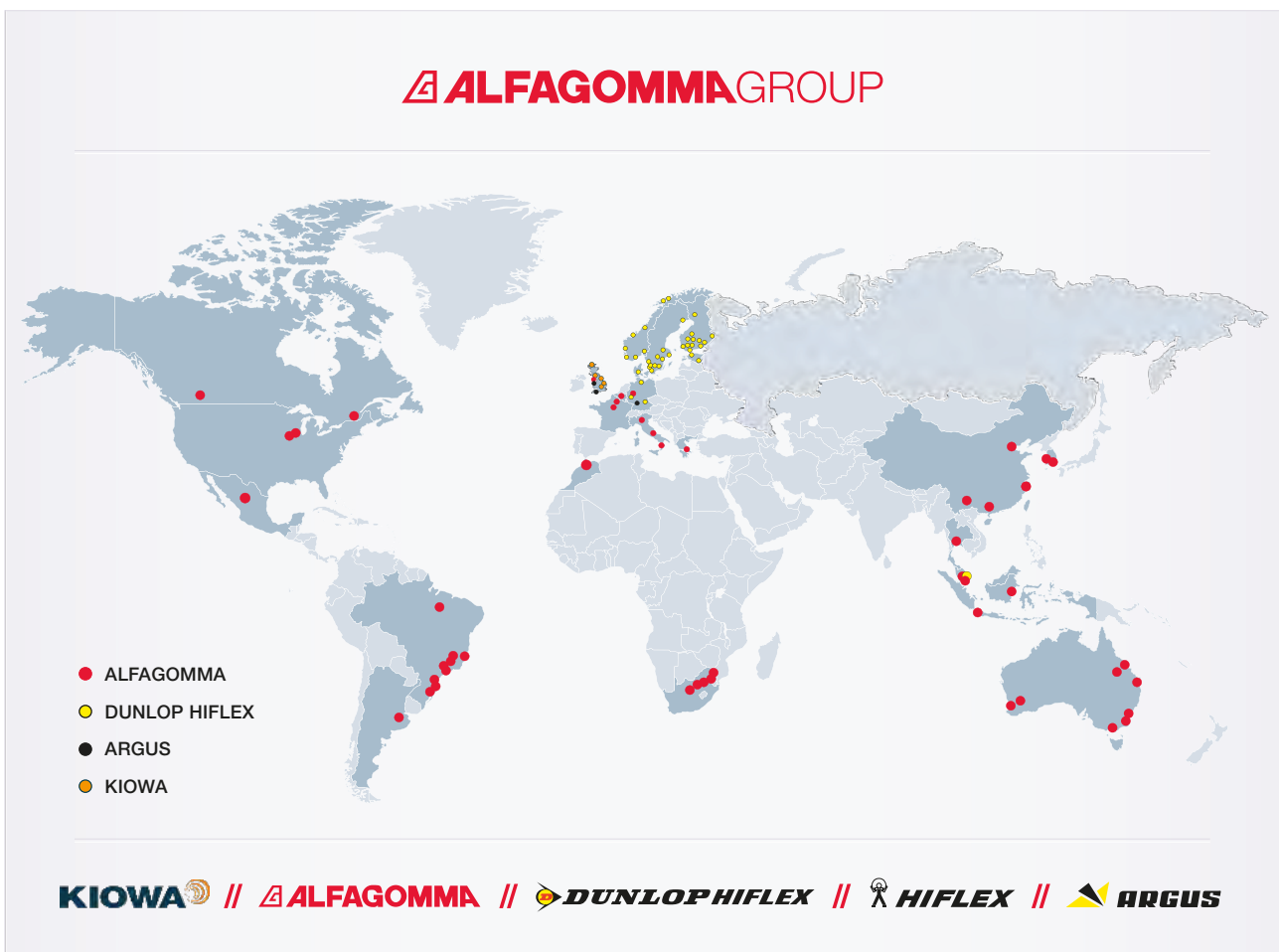
FLUID SYSTEM SOLUTIONS FOR MINING, QUARRYING & CEMENT INDUSTRY



// MAKE HANDLING AGGREGATES EASY

Our aggregate hoses provide a good service life, with a unique construction ensuring an unmatched resistance to wear. We carry solutions that will handle anything **from dry aggregates to abrasive slurry**, designed with a focus on longevity and economic viability.

Alfagomma Group solutions are tailored to the unique demands of various industries. Our expertise spans across **sand plants, sandblasting, quarrying, and mining**, ensuring that our hoses can handle everything from sharp sand classifications to abrasive slurries. Whether you need durable hoses for sand processing, reliable sandblasting solutions, environmentally safe quarrying hoses, or robust mining hoses, our products are designed to offer **exceptional performance, longevity, and safety, supporting your operations efficiently and sustainably**.



Alfagomma Group grants access to **global supply chains, expertise spanning 5 continents**. Your feedback gets relayed straight to the product design engineers in the factory; **tailoring global solutions to your domestic market**.

// INDUSTRIAL HOSE

BULK MATERIAL HANDLING

719AA HEAVY DUTY ABRASIVE SLURRY S&D

- Thick, premium abrasion resistant NR tube to provide extended hose service life
- CR cover to guarantee excellent ozone and weather resistance - also hydrocarbon and seawater resistant
- Corrugated cover to enhance flexibility and ease of installation
- Multiple layers of textile fabrics with embedded steel helix wire reinforcement to provide pressure and vacuum capabilities
- 10 bar working pressure with 3:1 safety factor
- Full vacuum in all sizes
- Conductive tube and cover to ensure safe use in potentially explosive environments
- Available from ID 51 to 305 mm

ALFATRACTO 719 MUFF COUPLING - UNIVERSAL FLANGE

- Aluminium light weight flanged connection system
- Split half couplings externally bolt mounted
- Universal flanges with elliptical drilling pattern compatible with:
EN 1092-1 PN10 - ANSI ASME B16.5 ASA150 - AS 2129 TABLE D-E
- Couplings internal corrugations are designed to match with the 719AA hose cover corrugations - providing maximum coupling retention
- Couplings are re-usable as they are designed not to come in contact with the abrasive medium
- On site quick and easy assembly



Explore the
719AA hose spec.
and associated
fittings.

Design and dimensions shown may be changed without prior notice

// 719AA



Abrasive slurry S&D 10 bar (150 psi) - Corrugated - ALFATRACTO muff couplings

Tube: black conductive NR - abrasion resistance 50 mm³ (ISO 4649/A).

Reinforcement: high tensile textile cords with embedded steel helix wire.

Cover: black conductive CR - abrasion, ozone, sea water and hydrocarbon resistant

Application: bulk material and abrasive slurries suction and delivery in heavy duty applications.

Designed for ALFATRACTO 719 muff coupling use.

Temperature: -30 °C +80 °C (-22 °F +176 °F)

ID (mm)	ID (in)	OD (mm)	OD (in)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	BR (mm)	BR (in)	Vacuum %	Weight (kg/m)	Weight (lb/ft)
51,0	2"	75,0	2,95	10	150	30	450	255	10,04	100,00	3,260	2,20
63,0	2 1/2"	88,0	3,46	10	150	30	450	315	12,40	100,00	4,170	2,81
76,0	3"	114,0	4,49	10	150	30	450	380	14,96	100,00	7,610	5,12
102,0	4"	133,0	5,24	10	150	30	450	510	20,08	100,00	8,380	5,64
127,0	5"	165,0	6,50	10	150	30	450	635	25,00	100,00	12,700	8,54
152,0	6"	188,0	7,40	10	150	30	450	760	29,92	100,00	14,850	9,98
203,0	8"	243,0	9,57	10	150	30	450	1218	47,95	100,00	20,560	13,82
254,0	10"	294,0	11,57	10	150	30	450	1524	60,00	100,00	25,700	17,28
305,0	12"	354,0	13,94	10	150	30	450	2440	96,06	100,00	32,830	22,07

// 720AA



Bulk material S&D 10 bar (150 psi)

Tube: black conductive NR - abrasion resistant.

Reinforcement: high tensile textile cords with embedded steel helix wire.

Cover: black conductive SBR/NR - abrasion and ozone resistant.

Application: bulk material suction and delivery in heavy duty applications. Specially designed for dry cement, grain and animal

Constant operation: -30 °C +80 °C (-22 °F +176 °F) feed transfer.

ID (mm)	ID (in)	OD (mm)	OD (in)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	BR (mm)	BR (in)	Vacuum %	Weight (kg/m)	Weight (lb/ft)
51,0	2"	65,00	2,56	10	150	30	450	153,0	6,02	100	1,430	0,97
63,0	2 1/2"	77,00	3,03	10	150	30	450	189,0	7,44	90	1,900	1,28
76,0	3"	90,00	3,54	10	150	30	450	228,0	8,98	90	2,280	1,54
76,0	3"	92,00	3,62	10	150	30	450	228,0	8,98	90	2,600	1,75
90,0	3 1/2"	106,00	4,17	10	150	30	450	270,0	10,63	90	3,230	2,18
102,0	4"	116,00	4,57	10	150	30	450	306,0	12,05	90	3,180	2,14
102,0	4"	118,00	4,65	10	150	30	450	306,0	12,05	90	3,600	2,42
127,0	5"	143,00	5,63	5	75	15	225	508,0	20,00	80	4,750	3,20
127,0	5"	145,00	5,71	5	75	15	225	508,0	20,00	80	5,270	3,55
152,0	6"	168,00	6,61	5	75	15	225	608,0	23,94	80	5,950	4,00
203,0	8"	221,00	8,70	5	75	15	225	812,0	31,97	70	8,990	6,05

// 712AA



Water-abrasive slurry S&D - PVC - Heavy duty

Tube: black conductive NR - abrasion resistant.
Reinforcement: high tensile textile cords with embedded steel helix wire - antistatic wire.
Cover: black conductive SBR/NR - abrasion and ozone resistant.
Application: bulk material suction and delivery for industrial vacuum use. Specially designed for cleaning truck in severe applications. Corrugated construction for maximum flexibility. Temperature: -30 °C +80 °C (-22 °F +176 °F)

ID (mm)	ID (in)	OD (mm)	OD (in)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	BR (mm)	BR (in)	Vacuum %	Weight (kg/m)	Weight (lb/ft)
102,0	4"	118,0	4,65	5	75	15	225	306	12,05	90,00	3,850	2,59
152,0	6"	169,0	6,65	5	75	15	225	456	17,95	80,00	6,080	4,09

SUCTION & DELIVERY

// 605AA EVOLUTION



Fuel-oil S&D 10 bar (150 psi) exceed SAE 100R4 - SAE J2006/R2 - ISO 13363/2/A+B

Tube: black conductive NBR.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: black CR - abrasion, ozone and hydrocarbon resistant.
Application: fuel and oil suction and delivery. Specially designed for tank truck and general industrial applications. Also suitable for marine wet exhaust and bilge pump connection.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)

ID (mm)	ID (in)	OD (mm)	OD (in)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	BR (mm)	BR (in)	Vacuum %	Weight (kg/m)	Weight (lb/ft)
19,0	3/4"	30,00	1,18	10	150	30	450	38	1,50	100	0,590	0,40
25,0	1"	36,00	1,42	10	150	30	450	50	1,97	100	0,740	0,50
32,0	1 1/4"	43,00	1,69	10	150	30	450	64	2,52	100	0,890	0,60
38,0	1 1/2"	49,00	1,93	10	150	30	450	76	2,99	100	1,040	0,70
51,0	2"	62,00	2,44	10	150	30	450	102	4,02	100	1,340	0,91
63,0	2 1/2"	76,00	2,99	10	150	30	450	189	7,44	90	2,080	1,40
76,0	3"	89,00	3,50	10	150	30	450	228	8,98	90	2,360	1,59
102,0	4"	116,00	4,57	10	150	30	450	306	12,05	90	3,400	2,29
127,0	5"	145,00	5,71	10	150	30	450	508	20,00	80	5,810	3,91
152,0	6"	170,00	6,69	10	150	25	375	608	23,94	80	7,230	4,86
203,0	8"	225,00	8,86	10	150	25	375	812	31,97	70	11,510	7,74

Design and dimensions shown may be changed without prior notice

// 202AA



General purpose S&D 10 bar (150psi) - EPDM

Tube: black conductive EPDM.

Reinforcement: high tensile textile cords with embedded steel helix wire.

Cover: black conductive EPDM - abrasion and ozone resistant.

Application: water suction and delivery. Also suitable for mild chemicals and fertilisers in general industrial and agricultural applications.

Constant operation: -40 °C +100 °C (-40 °F +212°F) depending on conveyed chemical.

ID (mm)	ID (in)	OD (mm)	OD (in)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	BR (mm)	BR (in)	Vacuum %	Weight (kg/m)	Weight (lb/ft)
25,0	1"	36,00	1,42	10	150	30	450	100,0	3,94	100	0,730	0,50
30,0	1 3/16"	41,00	1,61	10	150	30	450	120,0	4,72	100	0,820	0,56
32,0	1 1/4"	43,00	1,69	10	150	30	450	128,0	5,04	100	0,860	0,58
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	1,000	0,68
40,0	1 9/16"	51,00	2,01	10	150	30	450	160,0	6,30	100	1,050	0,71
45,0	1 3/4"	56,00	2,20	10	150	30	450	180,0	7,09	100	1,170	0,79
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,300	0,88
60,0	2 3/8"	73,00	2,87	10	150	30	450	240,0	9,45	100	2,000	1,35
63,0	2 1/2"	76,00	2,99	10	150	30	450	252,0	9,92	90	2,090	1,41
70,0	2 3/4"	83,00	3,27	10	150	30	450	280,0	11,02	90	2,330	1,57
76,0	3"	89,00	3,50	10	150	30	450	304,0	11,97	90	2,500	1,69
80,0	3 1/8"	93,00	3,66	10	150	30	450	320,0	12,60	90	2,680	1,81
90,0	3 1/2"	104,00	4,09	10	150	30	450	360,0	14,17	90	3,120	2,10
102,0	4"	116,00	4,57	10	150	30	450	408,0	16,06	90	3,480	2,34
110,0	4 5/16"	124,00	4,88	10	150	30	450	440,0	17,32	80	3,710	2,50
115,0	4 1/2"	129,00	5,08	10	150	30	450	460,0	18,11	80	3,860	2,60
120,0	4 3/4"	136,00	5,35	10	150	30	450	600,0	23,62	80	5,070	3,41
127,0	5"	143,00	5,63	10	150	30	450	635,0	25,00	80	5,330	3,59
152,0	6"	168,00	6,61	10	150	25	375	760,0	29,92	80	6,660	4,48
203,0	8"	221,00	8,70	10	150	25	375	812,0	31,97	70	9,880	6,64
254,0	10"	272,00	10,71	10	150	25	375	1270,0	50,00	60	13,520	9,09

// 265TH



Water-slurry S&D - PVC - Standard duty - Super-elastic

Tube: Light blue PVC with helical red stripe - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

Application: water suction and delivery. Special light weight construction for slurry tankers. Good flexibility at low temperature.

Constant operation: -20 °C +60 °C (-4 °F +140 °F)

ID (mm)	ID (in)	OD (mm)	OD (in)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	BR (mm)	BR (in)	Vacuum %	Weight (kg/m)	Weight (lb/ft)
51,0	2"			5	75	15	225	204,0	8,03	90	0,860	0,58
63,0	2 1/2"			4	60	12	180	252,0	9,92	90	1,265	0,86
76,0	3"			4	60	12	180	304,0	11,97	90	1,515	1,02
102,0	4"			3	45	9	135	408,0	16,06	90	2,220	1,50
127,0	5"			3	45	9	135	508,0	20,00	90	3,230	2,18
152,0	6"			2	30	6	90	608,0	23,94	90	4,140	2,79

COMPRESSED AIR

// 151AK



Compressed air 20 bar (300 psi) - Heavy duty mining

Tube: black SBR/NBR - oil mist resistant.

Reinforcement: high tenhigh tensile textile cords.

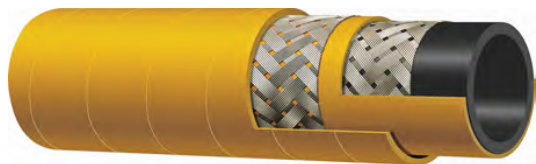
Cover: yellow SBR - abrasion and ozone resistant.

Application: compressed air designed for heavy duty mining applications.

Constant operation: -30 °C +80 °C (-22 °F +176 °F)

ID (mm)	ID (in)	OD (mm)	OD (in)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	BR (mm)	BR (in)	Vacuum %	Weight (kg/m)	Weight (lb/ft)
13,0	1/2"	23,00	0,91	20	300	60	900				0,420	0,29
19,0	3/4"	31,00	1,22	20	300	60	900				0,690	0,47
25,0	1"	37,00	1,46	20	300	60	900				0,860	0,58
38,0	1 1/2"	52,00	2,05	20	300	60	900				1,260	0,85
51,0	2"	67,00	2,64	20	300	60	900				2,200	1,48

// 142AK



Compressed air 20 bar (300 psi) - Heavy duty mining

Tube: black NBR (RMA Class A) - oil mist resistant.

Reinforcement: high tensile steel wire braids.

Cover: yellow SBR/NBR - abrasion, ozone, hydrocarbon and flame resistant - pin pricked.

Application: high pressure compressed air designed for heavy duty mine and quarry applications where long service life and maximum safety is required.

Constant operation: -40 °C +120 °C (-40 °F +248 °F).

ID (mm)	ID (in)	OD (mm)	OD (in)	WP (bar)	WP (psi)	BP (bar)	BP (psi)	BR (mm)	BR (in)	Vacuum %	Weight (kg/m)	Weight (lb/ft)
51,0	2"	64,00	2,52	40	600	160	2320	255,0	10,04		1,910	1,29
76,0	3"	90,00	3,54	40	600	120	1750	380,0	14,96		3,270	2,20

// HYDRAULIC HOSE & FITTINGS ASSEMBLIES

Kiowa delivers expertly engineered **hydraulic hose assemblies** for every application. From simple setups to complex, large-scale solutions, we **design and build fully customised systems** tailored to your exact needs.

alfabiotech EVOLUTION

SPECIALY DESIGNED FOR TOP PERFORMANCE AND COMPATIBILITY WITH BIODEGRADABLE HYDRAULIC OILS

EXTREME BEND RADIUS & FLEXIBILITY
up to 60% improvement on ISO 18752 and SAE 100 requirements.

COMPACT DESIGN
Compact and extremely flexible construction

HIGH ABRASION & FIRE RESISTANCE
Alfagomma minetuff cover is specially designed for heavy duty mining, forestry, construction, oil & gas applications, where MSHA fire resistance, long service life and best performance are fundamental.

alfabiotech EVOLUTION
COMPACT DESIGN
EXTREME BEND RADIUS
AND FLEXIBILITY



The product is warranted for a period of 5 years or 3,000 operating hours from the date of delivery, whichever occurs first. Any damage or loss resulting from improper use, negligence, or failure to follow the prescribed instructions shall be the sole responsibility of the buyer.

// HYDRAULIC FITTINGS

Our hydraulic fittings range includes both one and two-piece solutions: standard, multispiral and interlock fittings; we stock an extensive range of hydraulic fittings for almost every requirement.

Our fittings are designed to offer advanced flow pressure control and flow rate regulation. We offer both high impulse fittings and high-pressure options, that help to enhance safety and hose reliability.

Fittings available in sizes from 3/16" to 3".
All fittings come with hard wearing coats.
Only genuine fittings, manufactured by Alfagomma.



Discover the full Alfagomma range—contact Kiowa, visit our website or call us.

// SUPERTUFF COVER

Supertuff is the special cover for hydraulic hose, which dramatically **increases resistance** to environmental and severe application damages. It is an innovative alternative to protective sleeve in applications requiring abrasion resistance. This solution is designed to satisfy any demand for enhanced **performance in heavy duty, underground, open pit mining and quarrying applications**. Hose range **available** in both **wire braid** and **wire spiral construction** to suit the different bend radius and working pressure requirements.

MAIN FEATURES

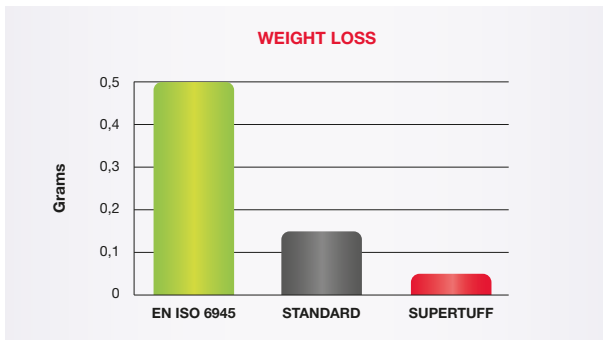
- ▲ **Excellent abrasion resistance**
- ▲ **Superior ozone resistance**
- ▲ **High UV rays, animal fats, acids and any other environmental stress resistance**
- ▲ **Approved MSHA flame resistance cover**
(Mine Safety and Health Administration)



ABRASION RESISTANCE

Test according to EN 85X Annex A (weight 25+/-5N) states that the maximum allowed loss of weight is 0,5 g:

- ALFAGOMMA standard cover: 0,15 g after 2000 cycles
- Minetuff cover: 0,05 g after 2000 cycles
- Supertuff cover: 0,05 g after 500,000 cycles

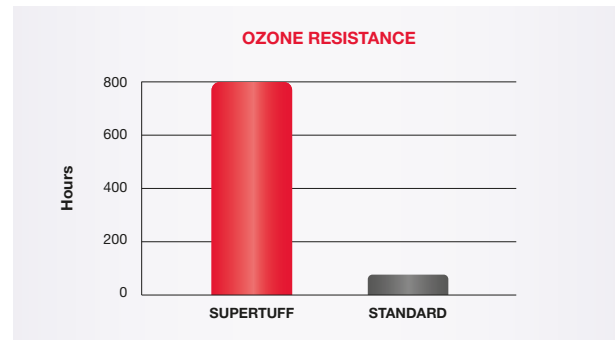


OZONE RESISTANCE

Test according to EN 27326.

Test conditions: 50 ppm Ozone Concentration, T= 40 °C

- ALFAGOMMA standard cover: 72 hours
- Minetuff cover: 720 hours
- Supertuff cover: more than 800 hours



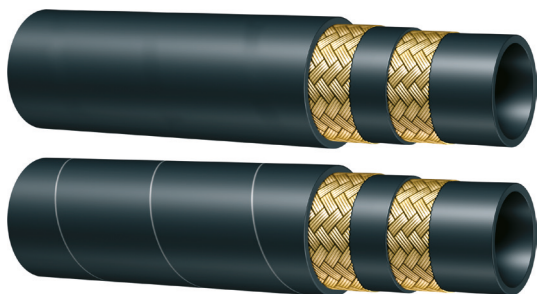
APPLICATIONS

- **MINING AND EARTH-MOVING MACHINES** Supertuff is abrasion resistant
- **MACHINERIES FOR FORESTRY** Supertuff is resistant to impact-caused damage
- **MACHINERIES FOR CHEMICAL PLANTS** Supertuff is resistant to most of the chemical agents
- **OFFSHORE APPLICATIONS** Supertuff is ozone and UV rays resistant
- **UNDERWATER APPLICATIONS** Supertuff is water resistant and non-absorbing

Design and dimensions shown may be changed without prior notice

// HYDRAULIC HOSE

// FLEXOPAK 2 - MINETUFF



MSHA

EN 857 2SC (up to 1") - ISO 11237 - SAE 100 R16

Tube: oil resistant synthetic rubber.

Reinforcement: two high tensile steel braids.

Cover: smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

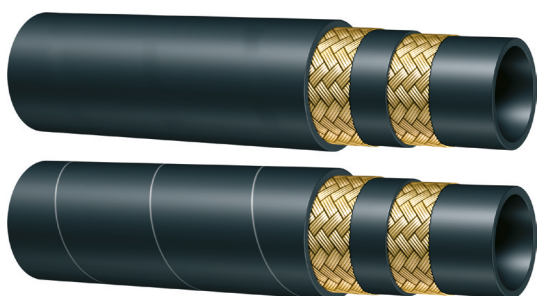
Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Temperature: -40 °C +100 °C (-40 °F +212 °F)
air max T = +70 °C (+160 °F)

Length: random up to 1" - 61 m max over 1 1/4"

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1000146	4	6,0	1/4"	13,0	0,51	42,0	6000	168,0	24000	50	1,97	0,259	0,18
1000174	5	8,0	5/16"	14,5	0,57	37,5	5500	150,0	22000	55	2,17	0,313	0,22
1000147	6	10,0	3/8"	16,8	0,66	35,0	5000	140,0	20000	65	2,56	0,382	0,26
1000171	8	13,0	1/2"	20,6	0,81	31,0	4500	124,0	18000	90	3,54	0,502	0,34
1000104	10	16,0	5/8"	23,2	0,91	28,0	4000	112,0	16000	100	3,94	0,598	0,41
1000172	12	19,0	3/4"	27,9	1,10	24,0	3500	96,0	14000	120	4,72	0,821	0,56
1000173	16	25,0	1"	35,5	1,40	21,0	3000	84,0	12000	150	5,91	1,266	0,86
1001533	20	32,0	1 1/4"	42,2	1,66	14,0	2000	58,0	8400	210	8,27	1,367	0,92
1001728	24	38,0	1 1/2"	49,9	1,96	12,5	1820	50,0	7280	430	16,93	1,864	1,26
1001729	32	51,0	2"	63,0	2,48	10,0	1500	40,0	5850	550	21,65	2,462	1,66
1001945	40	63,0	2 1/2"	76,4	3,01	7,5	1100	30,0	4300	720	28,35	2,866	1,93
1001994	48	76,0	3"	90,0	3,54	7,0	1000	28,0	4000	880	34,65	3,530	2,38

// FLEXOR 2SN/R2AT - MINETUFF



MSHA

SAE 100 R2AT - ISO 1436-1 - UNI EN 853 2SN

Tube: oil resistant synthetic rubber.

Reinforcement: two high tensile steel braids.

Cover: smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

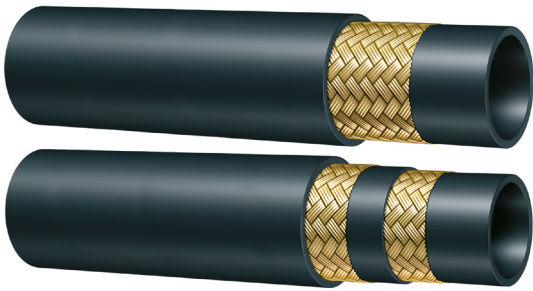
Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Temperature: -40 °C +100 °C (-40 °F +212 °F)
air max T = +70 °C (+160 °F)

Length: random up to 1" - 61 m max over 1 1/4"

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
1002467	4	6,0	1/4"	14,2	0,56	40,0	5850	160,0	23200	100	3,94	0,330	0,23
1002468	5	8,0	5/16"	15,8	0,62	35,0	5000	140,0	20000	115	4,53	0,353	0,24
1002469	6	10,0	3/8"	18,2	0,72	33,0	4800	132,0	19200	125	4,92	0,463	0,32
1002470	8	13,0	1/2"	21,3	0,84	27,5	4000	110,0	16000	175	6,89	0,530	0,36
1002471	10	16,0	5/8"	24,5	0,96	25,0	3630	100,0	14500	200	7,87	0,663	0,45
1002472	12	19,0	3/4"	28,6	1,13	21,5	3120	86,0	12500	240	9,45	0,810	0,55
1002473	16	25,0	1"	36,6	1,44	16,5	2400	66,0	9600	300	11,81	1,224	0,83
1002498	20	32,0	1 1/4"	46,0	1,81	12,5	1820	50,0	7280	420	16,54	1,769	1,19
1002474	24	38,0	1 1/2"	52,8	2,08	9,0	1310	36,0	5240	500	19,69	2,030	1,37
1002475	32	51,0	2"	65,6	2,58	8,0	1200	32,0	4640	630	24,80	2,760	1,86

// ALFAGOMMA ISO-TECH 3K - MINETUFF **NEW**



MSHA

ISO 18752 BC/CC - exceeds SAE 100 R17 - EN 857 1SC

Tube: oil resistant synthetic rubber.

Reinforcement: one/two high tensile steel braids.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

Temperature: DN6, 8, 10, 12: -40 °C +100 °C (-40 °F +212 °F)

DN16, 20, 25: -40 °C +120 °C (-40 °F +250 °F)

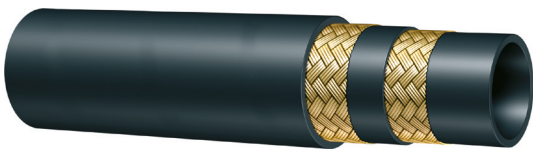
air max T = +70 °C (+160 °F)

Length: random

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1005751	1WB	4	6,0	1/4"	12,1	0,48	21,0	3000	84,0	12000	50	1,97	0,167	0,12	ISO BC
1005752	1WB	5	8,0	5/16"	13,3	0,52	21,0	3000	84,0	12000	55	2,17	0,190	0,13	ISO BC
1005753	1WB	6	10,0	3/8"	15,4	0,61	21,0	3000	84,0	12000	65	2,56	0,256	0,18	ISO BC
1005754	1WB	8	13,0	1/2"	19,2	0,76	21,0	3000	84,0	12000	90	3,54	0,360	0,25	ISO BC
1005755	2WB	10	16,0	5/8"	23,2	0,91	21,0	3000	84,0	12000	100	3,94	0,598	0,41	ISO CC
1005756	2WB	12	19,0	3/4"	27,9	1,10	21,0	3000	84,0	12000	120	4,72	0,821	0,56	ISO CC
1005757	2WB	16	25,0	1"	35,5	1,40	21,0	3000	84,0	12000	150	5,91	1,266	0,86	ISO CC

Supertuff: version available on request. The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary. Note: minimum order quantity could apply on specific part numbers.

// ALFAGOMMA ISO-TECH 4K - MINETUFF **NEW**



MSHA

ISO 18752 BC/CC - exceeds EN 857 2SC - ISO 11237 - SAE 100 R16

Tube: oil resistant synthetic rubber.

Reinforcement: two high tensile steel braids.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

Temperature: DN6, 8, 10, 12 -40 °C +120 °C (-40 °F +250 °F)

DN16, 20 -40 °C +100 °C (-40 °F +212 °F)

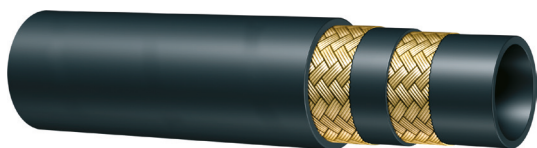
air max T = +70 °C (+160 °F)

Length: random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1005770	4	6,0	1/4"	13,0	0,51	28,0	4000	112,0	16000	50	1,97	0,259	0,18	ISO CC
1005771	5	8,0	5/16"	14,5	0,57	28,0	4000	112,0	16000	55	2,17	0,313	0,22	ISO CC
1005772	6	10,0	3/8"	16,8	0,66	28,0	4000	112,0	16000	65	2,56	0,373	0,26	ISO CC
1005773	8	13,0	1/2"	20,6	0,81	28,0	4000	112,0	16000	90	3,54	0,502	0,34	ISO CC
1005774	10	16,0	5/8"	23,2	0,91	28,0	4000	112,0	16000	100	3,94	0,598	0,41	ISO BC
1005775	12	19,0	3/4"	27,4	1,08	28,0	4000	112,0	16000	150	5,91	0,831	0,56	ISO BC

Design and dimensions shown may be changed without prior notice

// ALFAGOMMA ISO-TECH 5K - MINETUFF **NEW**



ISO 18752 BC/CC - exceeds EN 857 2SC - ISO 11237 - SAE 100 R16

Tube: oil resistant synthetic rubber.

Reinforcement: two high tensile steel braids.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

Temperature: DN6, 8 -40 °C +120 °C (-40 °F +250 °F)

DN10, 12 -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

Length: random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1005785	4	6,0	1/4"	13,0	0,51	35,0	5000	140,0	20000	50	1,97	0,259	0,18	ISO CC
1005786	5	8,0	5/16"	14,5	0,57	35,0	5000	140,0	20000	55	2,17	0,313	0,22	ISO CC
1005787	6	10,0	3/8"	16,8	0,66	35,0	5000	140,0	20000	65	2,56	0,373	0,26	ISO BC
1005788	8	13,0	1/2"	21,0	0,83	35,0	5000	140,0	20000	120	4,72	0,534	0,36	ISO BC

// ALFABIOTECH EVOLUTION 4K - MINETUFF **NEW**



ISO 18752

Tube: petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

Reinforcement: four high tensile steel spirals.

Cover: smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

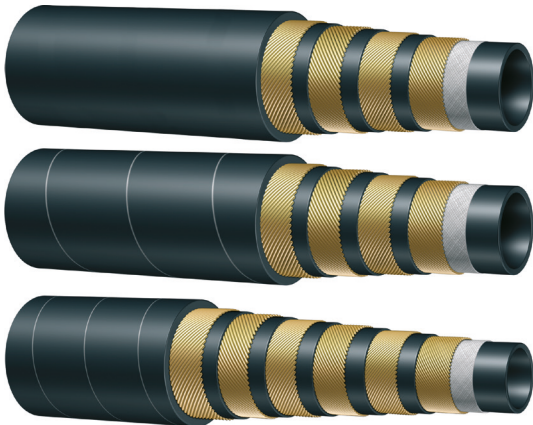
Temperature: -40 °C +120 °C (-40 °F +250 °F)

Length: random up to 1" - 61 m max over 1 1/4"

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1004894	8	13,0	1/2"	22,6	0,89	28,0	4000	112,0	16000	90	3,54	0,624	0,42	ISO CC
1004754	12	19,0	3/4"	29,0	1,14	28,0	4000	112,0	16000	120	4,72	0,978	0,66	ISO CC
1004755	16	25,0	1"	37,2	1,46	28,0	4000	112,0	16000	150	5,91	1,479	1,00	ISO CC
1004773	20	32,0	1 1/4"	44,2	1,74	28,0	4000	112,0	16000	210	8,27	2,400	1,62	ISO CC
1004756	24	38,0	1 1/2"	50,6	1,99	29,0	4200	116,0	16800	250	9,84	2,802	1,89	ISO CC
1004757	32	51,0	2"	64,7	2,55	28,0	4000	112,0	16000	318	12,52	4,001	2,69	ISO CC

Note: minimum order quantity could apply on specific part numbers.

// ALFABIOTECH EVOLUTION 5K - MINETUFF **NEW**



exceeds ISO 18752

Tube: petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

Reinforcement: four/six high tensile steel spirals.

Cover: smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

Temperature: -40 °C +120 °C (-40 °F +250 °F)

Length: random up to 1" - 61 m max over 1 1/4"

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1004743	4WS	10	16,0	5/8"	25,2	0,99	35,0	5000	140,0	20000	100	3,94	0,890	0,60	ISO CC
1004744	4WS	12	19,0	3/4"	29,4	1,16	35,0	5000	140,0	20000	120	4,72	1,166	0,79	ISO CC
1004745	4WS	16	25,0	1"	37,4	1,47	35,0	5000	140,0	20000	150	5,91	1,730	1,17	ISO CC
1004746	4WS	20	32,0	1 1/4"	44,0	1,73	35,0	5000	140,0	20000	210	8,27	2,400	1,62	ISO CC
1004747	6WS	24	38,0	1 1/2"	54,8	2,16	35,0	5000	140,0	20000	250	9,84	3,924	2,64	ISO CC
1004748	6WS	32	51,0	2"	68,7	2,70	35,0	5000	140,0	20000	318	12,52	5,787	3,89	ISO CC

Supertuff version available on request: the Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

Note: minimum order quantity could apply on specific part numbers.

Design and dimensions shown may be changed without prior notice

// ALFABIOTECH EVOLUTION 5K PLUS - MINETUFF **NEW**



ISO 18752

Tube: petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

Reinforcement: four high tensile steel spirals.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

Temperature: -40 °C +120 °C (-40 °F +250 °F)

Length: random

Item Code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1004749	12	19,0	3/4"	30,2	1,19	38,0	5500	152,0	22040	120	4,72	1,276	0,86	ISO CC
1004750	16	25,0	1"	37,4	1,47	38,0	5500	152,0	22040	150	5,91	1,817	1,23	ISO CC

Note: minimum order quantity could apply on specific part numbers.

// ALFABIOTECH EVOLUTION 6K - MINETUFF **NEW**



ISO 18752 - exceeds SAE 100 R15

Tube: petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

Reinforcement: four/six high tensile steel spirals.

Cover: smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

Temperature: -40 °C +120 °C (-40 °F +250 °F)

Length: random up to 1" - 61 m max over 1 1/4"

Item Code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)	Tech. Note
1004774	4WS	4	6,0	1/4"	17,0	0,67	45,0	6550	180,0	26200	60	2,36	0,510	0,35	ISO CC
1004775	4WS	6	10,0	3/8"	19,8	0,78	44,5	6450	178,0	25800	75	2,95	0,601	0,41	ISO CC
1004776	4WS	8	13,0	1/2"	22,5	0,89	42,0	6000	168,0	24000	90	3,54	0,710	0,48	ISO CC
1004777	4WS	10	16,0	5/8"	27,8	1,09	42,0	6000	168,0	24000	100	3,94	1,190	0,80	ISO CC
1004778	4WS	12	19,0	3/4"	30,6	1,20	42,0	6000	168,0	24000	120	4,72	1,371	0,93	ISO CC
1004779	4WS	16	25,0	1"	38,0	1,50	42,0	6000	168,0	24000	150	5,91	2,017	1,36	ISO CC
1004780	6WS	20	32,0	1 1/4"	47,6	1,87	42,0	6000	168,0	24000	225	8,86	3,071	2,07	ISO CC
1004781	6WS	24	38,0	1 1/2"	54,4	2,14	42,0	6000	168,0	24000	305	12,01	4,144	2,79	ISO CC
1004818	6WS	32	51,0	2"	68,7	2,70	42,0	6000	168,0	24000	380	14,96	6,031	4,06	ISO CC

Supertuff version available on request: the Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

Note: minimum order quantity could apply on specific part numbers.

THE ALFAGOMMA GROUP



UNITED KINGDOM – Sleaford
Kiowa Ltd, The Reservation, East Road
Sleaford, Lincolnshire, NG34 7BY
+44 (0) 1529 416200
sales@kiowa.co.uk

UNITED KINGDOM – Teesside
Unit 5, 6 Wallis Road, Skippers Lane
Industrial Estate, Middlesbrough,
+44 (0) 1642 762266
teessidesales@kiowa.co.uk

UNITED KINGDOM – Newcastle
Unit 3, Chollerton Drive, North Tyne
Industrial Estate, Whitley Road, Benton,
Newcastle Upon Tyne,
+44 (0) 1912 709730
newcastlesales@kiowa.co.uk

UNITED KINGDOM – Glasgow
19-23 Deerdrykes view, Cumbernauld,
Glasgow,
+44 (0) 1417 746200
glasgowsales@kiowa.co.uk

UNITED KINGDOM – Aberdeen
Unit 1, Blackness Industrial Centre,
Blackness Road, Aberdeen, Scotland
+44 (0) 1224 890339
aberdeensales@kiowa.co.uk



ARGENTINA – Buenos Aires
Moreno Store Center
Belisario Roldán 2616 - CP. 1744
La Reja - Bs. As.
+54 (11) 5365-6062/6063

AUSTRALIA – Sydney
50 Honeycomb Drive
Eastern Creek
Sydney, NSW 2766
+61 (2) 98 53 09 00
sydney@alfagomma.com.au

BELGIUM & NETHERLANDS – Benelux
Z5 Mollem 340
1730 Asse – Mollem
+32 (2) 209 27 40
info.benelux@alfagomma.com

BRAZIL – Guaranésia
Rua Felice Gennasio 401
Distrito Indl. Dr. Firmino Rocha de Freitas
37810-000 - Guaranésia, MG - Brasil
+55 (35) 35 55 0408
contato@alfagomma.com.br

CANADA – Montreal
6550 Abrams
St. Laurent, Montreal
Quebec H4S 1Y2
+1 (514) 33 35 577
info@alfagomma.com

CHINA – Ningbo
No. 1 Cidong South Avenue
Coastal Economic Development Zone
Cixi, Zhejiang, China 315311
+86 (574) 88 15 72 88
alfagomma.china@alfagomma.com.cn

FRANCE – Villepinte
Le Sisley – Parc d'activité Paris Nord 2
23 Allée des Impressionnistes
93420 Villepinte
+33 (1) 48172121
agfrance.info@alfagomma.com

GERMANY – Herne
Friedrich der Grosse 10
44628 Herne
+49 (2323) 14 730
info.germany@alfagomma.com

GREECE – Athens
85 Kifissou Avenue
12241 Aigaleo, Athens
+30 (210) 41 19 909
info.hellas@alfagomma.com

INDONESIA – Tangerang
Jalan Raya Serang km. 16
Sukamulya Cikupa
Tangerang Banten 15710
+62 (21) 59 66 4792
jakarta@alfagomma.co.id

ITALY – Vimercate
Via Torri Bianche 1
20871 Vimercate (MB)
+39 (039) 60 161
info@alfagomma.com

MALAYSIA – Pasir Gudang
Plo 405, Jalan Perak 4
81707 Pasir Gudang
Negeri Johor Darul Takzim
+60 (7) 25 72 000
alfagomma@alfagomma.com.my

MEXICO – Torreón
Av. Industria de la transformacion
Parque Pymes 585
27400 Torreón, Coahuila
+52 8713125026
alfagomma.mexico@alfagomma.com

SINGAPORE
14 Tuas Ave 11
Singapore 639080
+65 6360 9000
alfagomma@alfagomma.com.sg

SOUTH AFRICA – Johannesburg
17 Quark Crescent Linbro Business Park
Sandton 2065
+27 (11) 20 10 900
alfagomma@alfagomma.co.za

SOUTH KOREA – Hwasung
15 Julteo Gil
Yangkam-Myun, Hwasung-Si
Kyungki-Do 18630
+82 (31) 35 28 671
alfagomma@alfagomma.com

THAILAND - Bangkok
60/21 Moo.4 King Kaew Road
Racha Thewa SubDistrict, Bang Phli District
Samut Prakan Province, 10540
+66 (0) 2 136 2388
sales@alfagomma.co.th

UNITED KINGDOM – Haydock
43 Wilcock Road
Old Boston Trading Estate Haydock
St. Helens WA11 9TG +44
(1942) 40 76 80
haydock.sales@alfagomma.com

UNITED STATES OF AMERICA – Burlington
3520 West Avenue
IA 52601 Burlington
+1 (319) 75 89 224
info@alfagomma.us



DENMARK – Kolding
Kokbjerg 1A
6000 Kolding
+45 43 25 40 00
kundeservice@dunlophiflex.dk

ESTONIA – Tallinn
Läike tee 32/1 - Peetri alevik,
Rae vald - 75312 Harjumaa (Tallinn)
+372 (0) 605 4900
tallinn@dunlophiflex.ee

FINLAND – Pirkkala
Jasperintie 320
33960 Pirkkala
+358 (207) 625 700
info@dunlophiflex.fi

NORWAY – Kristiansand
Buråsen 7
4636 Kristiansand +47
23 00 47 00
sales@dunlophiflex.no

SWEDEN – Halmstad
Kistinge Industriområde
Seldonsvägen 2
302 62 Halmstad
+46 (0)10-414 44 00
info@dunlophiflex.se



GERMANY – Ettlingen
Pforzheimer Str. 126
76275 Ettlingen
+49 (7243) 50 550
info@argus-fluidtechnik.de

UNITED KINGDOM – Salisbury
Telford Road
Salisbury, Wiltshire SP2 7PH
+44 (1722) 42 05 90
sales@hiflex-europe.com