



**ALFAGOMMA**

**LOW TEMPERATURE RANGE**



## // LOW TEMPERATURE HOSES

**Specially designed for extreme conditions in Siberian and Arctic regions:**

- Open-pit mines
- Forestry
- Oil & Gas
- Construction



**Designed to ISO 18752, outperforming traditional standards 4SP, 4SH, R13, R15, R19:**

- High impulse pressure resistance and long service life
- Very small bend radius and low bending force
- Compact dimensions and low weight

**Very high flexibility at -55 °C**

- Bend radius up to 50% of the traditional norms and very low bending force

**Complete range and top parameters, unrivaled in the hydraulic hose industry!**

### APPLICATIONS



## // ALFAGOMMA PRODUCT RANGE

**NEW**

# EVOLUTION LT

New Evolution LT hose range designed to **guarantee extraordinary flexibility** in conditions of **very low temperatures** and **cold climates**.

- Specially designed for long service life in ultra low temperature applications.
- Extreme flexibility: up to 50% smaller bend radius and very low bending force compared to the traditional SAE 100 R types.
- Abrasion, ozone, hydrocarbon and ultra low temperature resistant synthetic rubber cover.



## // EVOLUTION 4000 LT **NEW**



### ISO 18752 – exceeds EN 856 4SH

**Tube:** oil resistant ultra low temperature synthetic rubber.

**Reinforcement:** four high tensile steel spirals.

**Cover:** abrasion, ozone, hydrocarbon and ultra low temperature resistant synthetic rubber.

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

Specially designed for long service life in ultra low temperature applications.

**Temperature:** -55 °C +100 °C (-67 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** 61 m max

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)
1004944	24	38,0	1 1/2"	50,6	1,99	29,0	4200	116,0	16800	250	9,84	2,659	1,79
1004945	32	51,0	2"	64,7	2,55	28,0	4000	112,0	16000	318	12,52	4,062	2,73

**ALFAGOMMA // EVOLUTION 4K LOW TEMP // 4S 1-1/2" (DN38) 4200 PSI (29 MPa)**

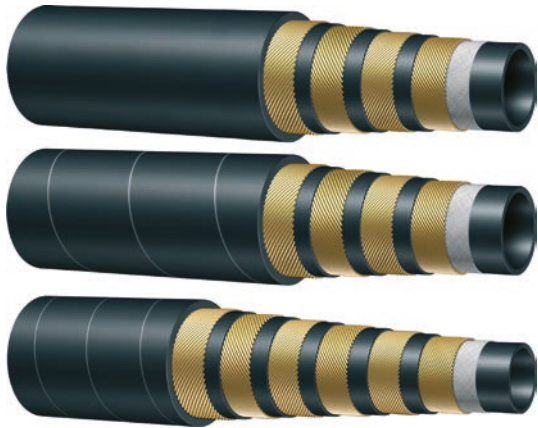
exceeds ISO 18752/CC  
EN 856 4SH

E4LTA  
MADE IN ITALY

**// EVOLUTION 5000 LT NEW**



**ISO 18752 - exceeds SAE 100 R13 - EN 856 4SP, 4SH**



**Tube:** oil resistant ultra low temperature synthetic rubber.  
**Reinforcement:** four/six high tensile steel spirals.  
**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone, hydrocarbon and ultra low temperature resistant synthetic rubber.  
**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water. Specially designed for long service life in ultra low temperature applications.  
**Temperature:** -55 °C +100 °C (-67 °F +212 °F)  
 air max T = +70 °C (+160 °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)
1004929	4WS	10	16,0	5/8"	25,9	1,02	35,0	5000	140,0	20000	100	3,94	0,898	0,61
1004930	4WS	12	19,0	3/4"	30,5	1,20	38,0	5500	152,0	22040	120	4,72	1,316	0,89
1004931	4WS	16	25,0	1"	38,2	1,50	38,0	5500	152,0	22040	150	5,91	1,922	1,30
1004932	4WS	20	32,0	1 1/4"	44,2	1,74	35,0	5000	140,0	20000	210	8,27	2,223	1,50
1004933	6WS	24	38,0	1 1/2"	54,8	2,16	35,0	5000	140,0	20000	250	9,84	4,106	2,76
1004934	6WS	32	51,0	2"	68,7	2,70	35,0	5000	140,0	20000	318	12,52	5,922	3,98

**ALFAGOMMA // EVOLUTION 5K LOW TEMP // 4S 1" (DN25) 5500 PSI (38 MPa)** exceeds ISO 18752/CC EN 856 4SH - SAE 100 R13 EELTAA MADE IN ITALY

**// EVOLUTION 6000 LT NEW**



**ISO 18752 - exceeds SAE 100 R15 - EN 856 4SP, 4SH**



**Tube:** oil resistant ultra low temperature synthetic rubber.  
**Reinforcement:** four/six high tensile steel spirals.  
**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone, hydrocarbon and ultra low temperature resistant synthetic rubber.  
**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water. Specially designed for long service life in ultra low temperature applications.  
**Temperature:** -55 °C +100 °C (-67 °F +212 °F)  
 air max T = +70 °C (+160 °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)
1004935	4WS	4	6,0	1/4"	17,3	0,68	45,0	6550	180,0	26200	60	2,36	0,552	0,38
1004936	4WS	6	10,0	3/8"	20,3	0,80	44,5	6450	178,0	25800	75	2,95	0,685	0,47
1004937	4WS	8	13,0	1/2"	22,8	0,90	42,0	6000	168,0	24000	90	3,54	0,784	0,53
1004938	4WS	10	16,0	5/8"	28,2	1,11	42,0	6000	168,0	24000	100	3,94	1,277	0,86
1004939	4WS	12	19,0	3/4"	31,1	1,22	42,0	6000	168,0	24000	120	4,72	1,446	0,98
1004940	4WS	16	25,0	1"	38,8	1,53	42,0	6000	168,0	24000	150	5,91	2,061	1,39
1004941	6WS	20	32,0	1 1/4"	47,6	1,87	42,0	6000	168,0	24000	225	8,86	3,069	2,07
1004942	6WS	24	38,0	1 1/2"	54,4	2,14	42,0	6000	168,0	24000	305	12,01	4,237	2,85
1004943	6WS	32	51,0	2"	68,7	2,70	42,0	6000	168,0	24000	380	14,96	6,001	4,04

**ALFAGOMMA // EVOLUTION 6K LOW TEMP // 6S 1-1/2" (DN38) 6000 PSI (42 MPa)** ISO 18752/CC exceeds SAE 100 R15 EELTAA MADE IN ITALY

## // FLEXOPAK 2 LT



### exceeds SAE 100 R16 - EN 857 2SC

**Tube:** oil resistant ultra low temperature synthetic rubber.

**Reinforcement:** two high tensile steel braids.

**Cover:** smooth up to 1", wrapped over 1". Oil, water, ozone and ultra low temperature resistant synthetic rubber.

**Application:** hydraulic system with petroleum or water/glycol based fluids, fuel, lubricating oils.

Specially designed for ultra low temperature applications.

**Temperature:** -55 °C +100 °C (-67 °F +212 °F)

air max T = +70 °C (+160 °F)

**Length:** random up to 1" - 61 m over 1"

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)
1003221	4	6,0	1/4"	13,0	0,51	42,0	6000	168,0	24000	50	1,97	0,280	0,19
1003283	5	8,0	5/16"	14,5	0,57	37,5	5500	150,0	22000	55	2,17	0,310	0,21
1003222	6	10,0	3/8"	16,8	0,66	35,0	5000	140,0	20000	65	2,56	0,390	0,27
1003226	8	13,0	1/2"	20,6	0,81	31,0	4500	124,0	18000	90	3,54	0,520	0,35
1003223	10	16,0	5/8"	23,4	0,92	28,0	4000	112,0	16000	100	3,94	0,600	0,41
1003224	12	19,0	3/4"	27,6	1,09	24,0	3500	96,0	14000	120	4,72	0,810	0,55
1003225	16	25,0	1"	35,5	1,40	21,0	3000	84,0	12000	150	5,91	1,220	0,82
1003304	20	32,0	1 1/4"	43,3	1,70	14,0	2000	58,0	8400	210	8,27	1,390	0,94

## // ALFAFOREST LT



**Tube:** oil resistant ultra low temperature synthetic rubber.

**Reinforcement:** three high tensile steel braids.

**Cover:** oil, water, ozone and ultra low temperature resistant synthetic rubber.

**Application:** hydraulic system with petroleum or water/glycol based fluids, fuel, lubricating oils. Resistant to bending and twisting.

Specially designed for ultra low temperature applications.

**Temperature:** -55 °C +100 °C (-67 °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)
1003305	6	10,0	3/8"	21,1	0,83	50,0	7280	196,0	28000	120	4,72	0,756	0,51
1003292	8	13,0	1/2"	24,1	0,95	46,9	6800	188,0	27200	160	6,30	0,892	0,60
1003293	10	16,0	5/8"	27,8	1,09	41,0	6000	164,0	23500	210	8,27	1,121	0,76
1003230	12	19,0	3/4"	32,2	1,27	37,5	5500	150,0	22000	260	10,24	1,430	0,97
1003294	16	25,0	1"	39,2	1,54	32,7	4750	130,8	19000	310	12,20	1,940	1,31

## // 606AE



### Oil suction & return line 10 bar (150 psi) - Corrugated - Low Temperature

**Tube:** black conductive NBR.

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

**Cover:** blue CR - abrasion, ozone and hydrocarbon resistant.

**Application:** fuel, oil and hydraulic fluids suction and delivery. Specially designed for tank truck applications where extreme flexibility at low temperatures is required.

**Constant operation:** -54 °C +82 °C (-65 °F +180 °F)

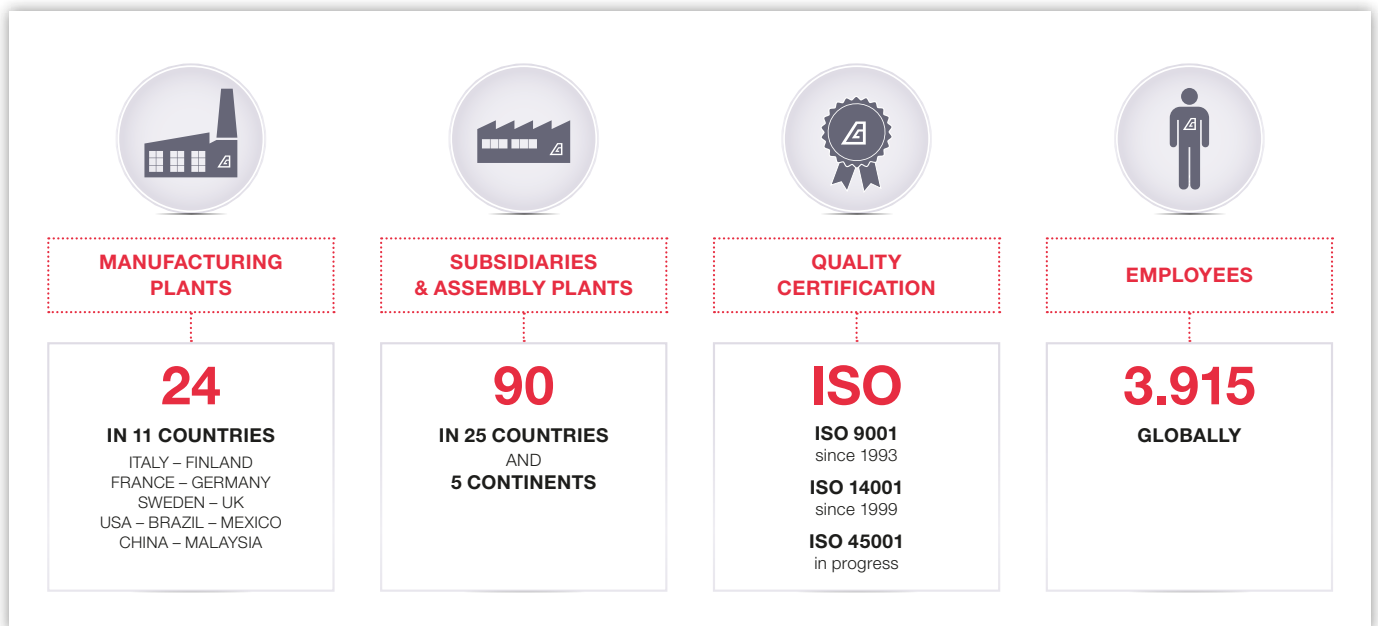
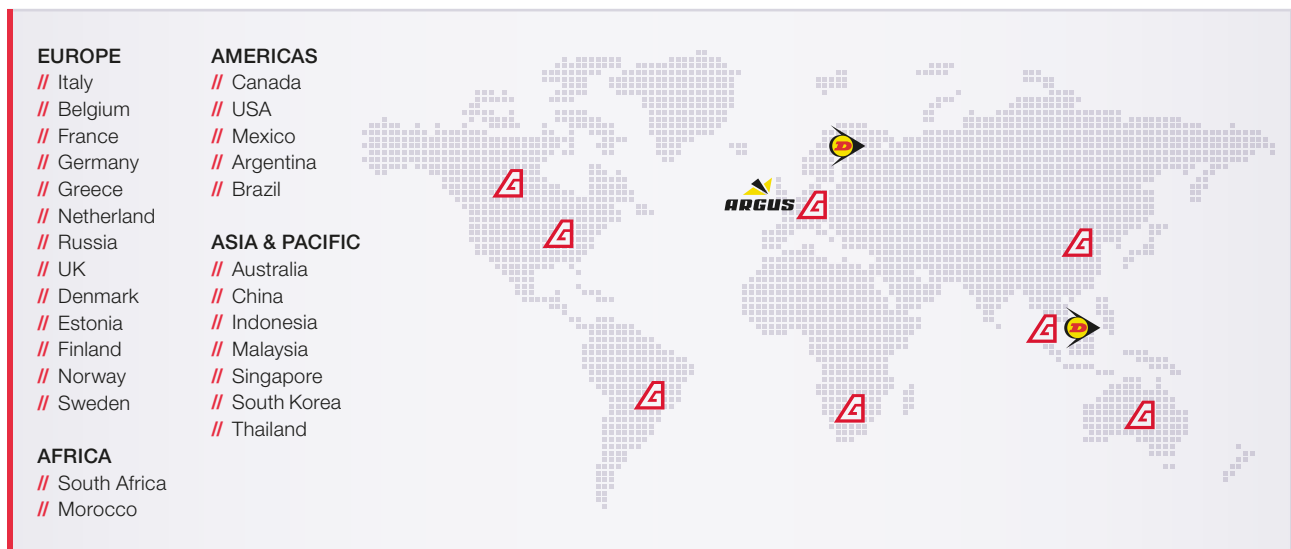
↻		↻		↻		↻		↻		↻		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"			10	150	30	450	76,0	2,99	100	1,540	1,04
76,0	3"			10	150	30	450	114,0	4,49	100	2,680	1,81
102,0	4"			10	150	30	450	153,0	6,02	100	3,910	2,63

## // PROVIDING EXCELLENCE AND RELIABILITY

The Alfagomma Group, established in 1956, is a global manufacturer specialized in highly engineered, complex hydraulic and industrial products, created with a commitment to excellence in quality and innovation.

## // GLOBAL PRESENCE AND LOGISTIC SUPPORT

The Alfagomma Group currently employs over 3900 people worldwide in 24 Production Plants and 90 Regional Distribution – Assembly Centers strategically located in:



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