



// HYDROCARBONS



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// 687AA



**Automotive fuel 10 bar (150 psi)
DIN 73379/2A**

Tube: black NBR.
Reinforcement: high tensile textile cords.
Cover: black CR - abrasion, ozone and hydrocarbon resistant.
Application: petrol and diesel transfer in automotive applications. Also suitable for ecodiesel.
Constant operation: -35 °C +90 °C (-31 °F +194 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
3,5	9/64"	9,50	0,37	10	150	30	450	30,0	1,18		0,080	0,06
5,0	3/16"	11,00	0,43	10	150	30	450	55,0	2,17		0,100	0,07
5,5	7/32"	11,50	0,45	10	150	30	450	55,0	2,17		0,105	0,08
6,0	1/4"	12,00	0,47	10	150	30	450	60,0	2,36		0,115	0,08
7,5	19/64"	13,50	0,53	10	150	30	450	75,0	2,95		0,130	0,09
9,5	3/8"	15,50	0,61	10	150	30	450	85,0	3,35		0,160	0,11

// 689AA



Automotive fuel 10 bar (150 psi) - External textile braid

Tube: black NBR.
Reinforcement: high tensile textile braid.
Application: petrol and diesel transfer in automotive applications. Also suitable for unleaded fuel and ecodiesel.
Constant operation: -20 °C +100 °C (-4 °F +212 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
3,2	1/8"	7,00	0,28	10	150	30	450	25,0	0,98		0,040	0,03
3,5	9/64"	7,50	0,30	10	150	30	450	28,0	1,10		0,045	0,04
4,0	5/32"	8,00	0,31	10	150	30	450	35,0	1,38		0,050	0,04
4,5	11/64"	9,50	0,37	10	150	30	450	38,0	1,50		0,060	0,05
5,0	3/16"	10,00	0,39	10	150	30	450	40,0	1,57		0,065	0,05
5,5	7/32"	10,50	0,41	10	150	30	450	45,0	1,77		0,070	0,05
6,0	1/4"	11,00	0,43	10	150	30	450	50,0	1,97		0,075	0,06
7,5	19/64"	12,50	0,49	10	150	30	450	60,0	2,36		0,085	0,06
8,0	5/16"	13,00	0,51	10	150	30	450	65,0	2,56		0,090	0,07
9,0	23/64"	14,00	0,55	10	150	30	450	75,0	2,95		0,105	0,08
10,0	3/8"	15,00	0,59	10	150	30	450	80,0	3,15		0,110	0,08
12,0	15/32"	17,00	0,67	8	120	24	350	90,0	3,54		0,135	0,10

// 688AA



Diesel oil delivery 15 bar (225 psi) - External steel braid

Tube: black NBR.
Reinforcement: plated steel braid.
Application: diesel oil delivery. Specially designed for burner feed line.
Constant operation: -20 °C +100 °C (-4 °F +212 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	11,00	0,43	15	225	70	1000	30,0	1,18		0,100	0,07
8,0	5/16"	13,00	0,51	15	225	70	1000	40,0	1,57		0,155	0,11
10,0	3/8"	15,00	0,59	15	225	70	1000	45,0	1,77		0,190	0,13
12,0	15/32"	17,00	0,67	15	225	70	1000	55,0	2,17		0,230	0,16

Dimensions shown may be changed without prior notice

// 680AA

**Fuel-oil delivery 10 bar (150 psi)****Tube:** black synthetic elastomer.**Reinforcement:** high tensile textile cords - antistatic wire ID ≥ 13 mm.**Cover:** black synthetic elastomer - abrasion, ozone and hydrocarbon resistant.**Application:** general purpose fuel and oil delivery.**Constant operation:** -10 °C +60 °C (+14 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	13,00	0,51	10	150	30	450	48,0	1,89		0,140	0,10
8,0	5/16"	15,00	0,59	10	150	30	450	64,0	2,52		0,170	0,12
10,0	3/8"	17,00	0,67	10	150	30	450	80,0	3,15		0,200	0,14
13,0	1/2"	20,00	0,79	10	150	30	450	104,0	4,09		0,245	0,17
19,0	3/4"	27,00	1,06	10	150	30	450	152,0	5,98		0,395	0,27
25,0	1"	35,00	1,38	10	150	30	450	200,0	7,87		0,625	0,43

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INDUSTRIAL HOSE

// 671AA

**Fuel-oil delivery 16 bar (240 psi)****Tube:** black conductive NBR.**Reinforcement:** high tensile textile cords.**Cover:** black synthetic rubber - abrasion, ozone and hydrocarbon resistant.**Application:** general purpose fuel and oil delivery.**Constant operation:** -25 °C +80 °C (-13 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
5,0	3/16"	12,00	0,47	16	240	48	720	50,0	1,97		0,130	0,09
6,0	1/4"	13,00	0,51	16	240	48	720	60,0	2,36		0,140	0,10
7,0	9/32"	13,00	0,51	16	240	48	720	70,0	2,76		0,135	0,10
8,0	5/16"	15,00	0,59	16	240	48	720	80,0	3,15		0,170	0,12
10,0	3/8"	17,00	0,67	16	240	48	720	100,0	3,94		0,200	0,14
13,0	1/2"	20,00	0,79	16	240	48	720	130,0	5,12		0,250	0,17
16,0	5/8"	24,00	0,94	16	240	48	720	160,0	6,30		0,350	0,24
19,0	3/4"	27,00	1,06	16	240	48	720	190,0	7,48		0,400	0,27
25,0	1"	35,00	1,38	16	240	48	720	250,0	9,84		0,680	0,46

// 650AA

**Fuel-oil delivery 10 bar (150 psi)****Tube:** black conductive NBR.**Reinforcement:** high tensile textile cords.**Cover:** black conductive CR - abrasion, ozone, hydrocarbon and fire resistant.**Application:** general purpose fuel and oil delivery.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		↷		↺	↻	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	29,00	1,14	10	150	30	450				0,450	0,31
25,0	1"	35,00	1,38	10	150	30	450				0,570	0,39
32,0	1 1/4"	42,00	1,65	10	150	30	450				0,700	0,48
32,0	1 1/4"	44,00	1,73	10	150	30	450				0,860	0,58
35,0	1 3/8"	47,00	1,85	10	150	30	450				0,940	0,64
38,0	1 1/2"	48,00	1,89	10	150	30	450				0,820	0,56
38,0	1 1/2"	50,00	1,97	10	150	30	450				1,000	0,68
40,0	1 9/16"	52,00	2,05	10	150	30	450				1,050	0,71
45,0	1 3/4"	57,00	2,24	10	150	30	450				1,170	0,79
51,0	2"	61,00	2,40	10	150	30	450				1,090	0,74
51,0	2"	63,00	2,48	10	150	30	450				1,320	0,89
63,0	2 1/2"	75,00	2,95	10	150	30	450				1,600	1,08
76,0	3"	88,00	3,46	10	150	30	450				1,930	1,30
102,0	4"	114,00	4,49	10	150	30	450				2,610	1,76

// 650AH

**Fuel-oil delivery 10 bar (150 psi)****Tube:** black conductive NBR.**Reinforcement:** high tensile textile cords - antistatic wire.**Cover:** red CR - abrasion, ozone and hydrocarbon resistant.**Application:** general purpose fuel and oil delivery.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		↷		↺	↻	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	29,00	1,14	10	150	30	450				0,510	0,35
22,0	7/8"	32,00	1,26	10	150	30	450				0,570	0,39
25,0	1"	35,00	1,38	10	150	30	450				0,640	0,44
32,0	1 1/4"	44,00	1,73	10	150	30	450				0,950	0,64
38,0	1 1/2"	48,00	1,89	10	150	30	450				0,910	0,62
38,0	1 1/2"	50,00	1,97	10	150	30	450				1,100	0,74
51,0	2"	61,00	2,40	10	150	30	450				1,200	0,81
51,0	2"	63,00	2,48	10	150	30	450				1,440	0,97
63,0	2 1/2"	77,00	3,03	10	150	30	450				2,060	1,39
76,0	3"	88,00	3,46	10	150	30	450				2,090	1,41
76,0	3"	92,00	3,62	10	150	30	450				2,530	1,71
102,0	4"	114,00	4,49	10	150	30	450				2,830	1,91

Dimensions shown may be changed without prior notice

// 650AB

**Fuel-oil delivery 10 bar (150 psi)****Tube:** black conductive NBR.**Reinforcement:** high tensile textile cords - antistatic wire.**Cover:** grey CR - abrasion, ozone and hydrocarbon resistant.**Application:** general purpose fuel and oil delivery.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"	35,00	1,38	10	150	30	450				0,640	0,44
32,0	1 1/4"	42,00	1,65	10	150	30	450				0,780	0,53
32,0	1 1/4"	44,00	1,73	10	150	30	450				0,940	0,64
38,0	1 1/2"	48,00	1,89	10	150	30	450				0,910	0,62
38,0	1 1/2"	50,00	1,97	10	150	30	450				1,100	0,74

// 668EL

**Fuel-oil S&D - PVC - Heavy duty****Construction:** blue PVC - abrasion, ozone and hydrocarbon resistant.**Reinforcement:** white shock resistant rigid PVC.**Application:** general purpose fuel and oil suction and delivery.**Constant operation:** -10 °C +60 °C (+14 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"			7	100	21	300	150,0	5,91	90	0,540	0,37
32,0	1 1/4"			6	90	18	270	192,0	7,56	90	0,680	0,46
38,0	1 1/2"			6	90	18	270	228,0	8,98	90	0,760	0,52
40,0	1 9/16"			6	90	18	270	240,0	9,45	90	0,800	0,54
51,0	2"			5	75	15	225	306,0	12,05	90	1,150	0,78
60,0	2 3/8"			4	60	12	180	360,0	14,17	90	1,550	1,05
63,0	2 1/2"			4	60	12	180	378,0	14,88	90	1,600	1,08
76,0	3"			4	60	12	180	456,0	17,95	90	2,000	1,35
80,0	3 1/8"			4	60	12	180	480,0	18,90	90	2,100	1,42
102,0	4"			3	45	9	135	612,0	24,09	90	3,100	2,09

// 601AA



Oil rigger-fracking S&D 10 bar (150 psi)

Tube: black NBR/PVC.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: black SBR - abrasion and ozone resistant.
Application: crude oil mud in oilfield vacuum tank service. Extensively used in fracking operations.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚡	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"	62,00	2,44	10	150	30	450	255,0	10,04	100	1,370	0,93
76,0	3"	89,00	3,50	10	150	30	450	380,0	14,96	90	2,540	1,71
102,0	4"	116,00	4,57	10	150	30	450	510,0	20,08	90	3,990	2,69
152,0	6"	168,00	6,61	10	150	25	375	760,0	29,92	80	6,760	4,55

// 605AA



**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)

↔		↔		↻		↻		⤴		⚡	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	30,00	1,18	10	150	30	450	76,0	2,99	100	0,600	0,41
25,0	1"	36,00	1,42	10	150	30	450	100,0	3,94	100	0,750	0,51
30,0	1 3/16"	41,00	1,61	10	150	30	450	120,0	4,72	100	0,890	0,60
32,0	1 1/4"	43,00	1,69	10	150	30	450	128,0	5,04	100	0,940	0,64
35,0	1 3/8"	46,00	1,81	10	150	30	450	140,0	5,51	100	1,020	0,69
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	1,090	0,74
40,0	1 9/16"	51,00	2,01	10	150	30	450	160,0	6,30	100	1,140	0,77
42,0	1 5/8"	53,00	2,09	10	150	30	450	168,0	6,61	100	1,190	0,80
45,0	1 3/4"	56,00	2,20	10	150	30	450	180,0	7,09	100	1,260	0,85
48,0	1 7/8"	59,00	2,32	10	150	30	450	192,0	7,56	100	1,330	0,90
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,410	0,95
57,0	2 1/4"	68,00	2,68	10	150	30	450	228,0	8,98	100	1,570	1,06
60,0	2 3/8"	73,00	2,87	10	150	30	450	240,0	9,45	100	1,980	1,34
63,0	2 1/2"	76,00	2,99	10	150	30	450	252,0	9,92	90	2,060	1,39
70,0	2 3/4"	83,00	3,27	10	150	30	450	280,0	11,02	90	2,300	1,55
76,0	3"	89,00	3,50	10	150	30	450	304,0	11,97	90	2,470	1,66
80,0	3 1/8"	94,00	3,70	10	150	30	450	320,0	12,60	90	2,650	1,79
90,0	3 1/2"	104,00	4,09	10	150	30	450	360,0	14,17	90	3,090	2,08
102,0	4"	116,00	4,57	10	150	30	450	408,0	16,06	90	3,440	2,32
110,0	4 5/16"	124,00	4,88	10	150	30	450	440,0	17,32	90	4,150	2,79
115,0	4 1/2"	129,00	5,08	10	150	30	450	460,0	18,11	90	4,320	2,91
120,0	4 3/4"	138,00	5,43	10	150	30	450	480,0	18,90	80	5,530	3,72
127,0	5"	145,00	5,71	10	150	30	450	508,0	20,00	80	5,810	3,91
133,0	5 1/4"	151,00	5,94	10	150	30	450	532,0	20,94	80	6,050	4,07
152,0	6"	170,00	6,69	10	150	25	375	608,0	23,94	80	7,230	4,86
203,0	8"	225,00	8,86	10	150	25	375	812,0	31,97	70	11,470	7,71

Dimensions shown may be changed without prior notice

// 605AH



Fuel-oil S&D 10 bar (150 psi)

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

↔		↔		↻		↻		⤴		⚠		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	1,070	0,72	
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,380	0,93	
76,0	3"	89,00	3,50	10	150	30	450	304,0	11,97	90	2,225	1,50	
102,0	4"	116,00	4,57	10	150	30	450	408,0	16,06	90	3,540	2,38	

// 629AA



Biofuel S&D 10 bar (150 psi)

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 biofuel and ethanol.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚠		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
19,0	3/4"	30,00	1,18	10	150	30	450	76,0	2,99	100	0,620	0,42	
25,0	1"	36,00	1,42	10	150	30	450	100,0	3,94	100	0,770	0,52	
32,0	1 1/4"	43,00	1,69	10	150	30	450	128,0	5,04	100	0,970	0,66	
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	1,200	0,81	
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,450	0,98	
76,0	3"	89,00	3,50	10	150	30	450	304,0	11,97	90	2,540	1,71	
102,0	4"	116,00	4,57	10	150	30	450	408,0	16,06	90	3,540	2,38	

// 606AE



Tank truck 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	

// 655AA



Fuel-oil delivery 16 bar (240 psi) exceeds EN 1761 - TRbF 131/2

Tube: black conductive NBR.
Reinforcement: high tensile textile cords.
Cover: black conductive CR - abrasion, ozone, hydrocarbon and fire resistant.
Application: fuel and oil delivery. Designed for long service life in heavy duty applications.
Constant operation: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		↻		↻		⤴		⚡	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	31,00	1,22	16	240	48	720	125,0	4,92		0,560	0,38
25,0	1"	37,00	1,46	16	240	48	720	150,0	5,91		0,690	0,47
32,0	1 1/4"	44,00	1,73	16	240	48	720	175,0	6,89		0,870	0,59
38,0	1 1/2"	51,00	2,01	16	240	48	720	225,0	8,86		1,020	0,69
51,0	2"	67,00	2,64	16	240	48	720	275,0	10,83		1,550	1,05
63,0	2 1/2"	79,00	3,11	16	240	48	720	300,0	11,81		1,880	1,27
76,0	3"	92,00	3,62	16	240	48	720	350,0	13,78		2,310	1,56
102,0	4"	118,00	4,65	16	240	48	720	450,0	17,72		3,410	2,30
152,0	6"	170,00	6,69	16	240	48	720	750,0	29,53		5,140	3,46

// 619AA



Fuel-oil S&D 16 bar (240 psi) EN 12115 - exceeds EN 1761 - TRbF 131/2

Tube: black conductive NBR.
Reinforcement: high tensile textile cords with embedded steel helix wire - antistatic wire.
Cover: black conductive CR - abrasion, ozone, hydrocarbon and fire resistant.
Application: fuel and oil suction and delivery. Designed for long service life in heavy duty applications.
Constant operation: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		↻		↻		⤴		⚡	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	31,00	1,22	16	240	64	960	95,0	3,74	100	0,690	0,47
25,0	1"	37,00	1,46	16	240	64	960	150,0	5,91	100	0,850	0,58
32,0	1 1/4"	44,00	1,73	16	240	64	960	175,0	6,89	100	1,030	0,70
38,0	1 1/2"	51,00	2,01	16	240	64	960	225,0	8,86	100	1,180	0,80
50,0	2"	66,00	2,60	16	240	64	960	275,0	10,83	100	1,760	1,19
51,0	2"	67,00	2,64	16	240	64	960	275,0	10,83	100	2,010	1,36
63,0	2 1/2"	79,00	3,11	16	240	64	960	300,0	11,81	90	2,590	1,75
75,0	3"	91,00	3,58	16	240	64	960	350,0	13,78	90	2,790	1,88
76,0	3"	92,00	3,62	16	240	64	960	350,0	13,78	90	2,820	1,90
100,0	4"	116,00	4,57	16	240	64	960	450,0	17,72	90	3,760	2,53
102,0	4"	118,00	4,65	16	240	64	960	450,0	17,72	90	3,820	2,57

Dimensions shown may be changed without prior notice

// 620AA

**Fuel-oil S&D 20 bar (300 psi)****Tube:** black conductive NBR.**Reinforcement:** high tensile textile cords with embedded steel helix wire - antistatic wire.**Cover:** black CR - abrasion, ozone and hydrocarbon resistant.**Application:** fuel and oil suction and delivery. Designed for long service life in heavy duty applications.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚡		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
51,0	2"	63,00	2,48	20	300	60	900	204,0	8,03	100	1,650	1,11	
63,0	2 1/2"	77,00	3,03	20	300	60	900	252,0	9,92	90	2,140	1,44	
76,0	3"	90,00	3,54	20	300	60	900	304,0	11,97	90	2,620	1,77	
102,0	4"	116,00	4,57	20	300	60	900	408,0	16,06	90	3,580	2,41	
127,0	5"	145,00	5,71	20	300	60	900	508,0	20,00	80	6,090	4,10	
152,0	6"	170,00	6,69	20	300	60	900	608,0	23,94	80	8,250	5,55	
203,0	8"	225,00	8,86	20	300	60	900	812,0	31,97	70	12,310	8,28	

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INDUSTRIAL HOSE

// 658AA

**Domestic fuel reeling 16 bar (240 psi) - Textile braided
EN 1360/1 - TRbF 131/2****Tube:** black conductive NBR.**Reinforcement:** high tensile textile braids.**Cover:** black conductive CR - abrasion, ozone, hydrocarbon and fire resistant.**Application:** fuel and oil delivery in heavy duty reeling applications. Also suitable for tank cleaning. Antistatic wire available on request.**Constant operation:** -30 °C +70 °C (-22 °F +158 °F)

↔		↔		↻		↻		⤴		⚡		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
25,0	1"	37,00	1,46	16	240	48	720	125,0	4,92		0,660	0,45	
32,0	1 1/4"	44,00	1,73	16	240	48	720	160,0	6,30		0,790	0,54	
35,0	1 3/8"	47,00	1,85	16	240	48	720	175,0	6,89		0,850	0,58	
38,0	1 1/2"	51,00	2,01	16	240	48	720	190,0	7,48		1,030	0,70	
51,0	2"	67,00	2,64	16	240	48	720	255,0	10,04		1,780	1,20	
51,0	2"	67,00	2,64	16	240	48	720	255,0	10,04		1,780	1,20	
51,0	2"	67,00	2,64	16	240	48	720	255,0	10,04		1,720	1,16	

// 659AA

**LPG delivery 25 bar (375 psi) - Textile braided EN 1762/DM**

Tube: black NBR.

Reinforcement: high tensile textile braids - antistatic wire.

Cover: black CR - abrasion, ozone, hydrocarbon and fire resistant - pin pricked.

Application: LPG delivery in heavy duty reeling applications.

Constant operation: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		↻		↻		⤴		⚖		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	kg/m	lb/ft
19,0	3/4"	31,00	1,22	25	375	100	1500	160,0	6,30		0,690	0,47		
25,0	1"	38,00	1,50	25	375	100	1500	200,0	7,87		0,860	0,58		
32,0	1 1/4"	45,00	1,77	25	375	100	1500	250,0	9,84		1,130	0,76		
38,0	1 1/2"	52,00	2,05	25	375	100	1500	320,0	12,60		1,440	0,97		
51,0	2"	67,00	2,64	25	375	100	1500	400,0	15,75		2,220	1,50		

Dimensions shown may be changed without prior notice

// 656AA


**Aircraft ground fuelling 20 bar (300 psi)
EN ISO 1825/C**
Tube: black NBR.**Reinforcement:** high tensile textile braids.**Cover:** black conductive CR - abrasion, ozone and hydrocarbon resistant.**Application:** aircraft ground fuelling.**Constant operation:** -30 °C +65 °C (-22 °F +150 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"	37,00	1,46	20	300	80	1200	150,0	5,91		0,770	0,52
32,0	1 1/4"	44,00	1,73	20	300	80	1200	190,0	7,48		0,920	0,62
38,0	1 1/2"	51,00	2,01	20	300	80	1200	225,0	8,86		1,180	0,80
50,0	2"	66,00	2,60	20	300	80	1200	275,0	10,83		1,810	1,22
63,0	2 1/2"	79,00	3,11	20	300	80	1200	300,0	11,81		2,070	1,40
75,0	3"	91,00	3,58	20	300	80	1200	300,0	11,81		2,500	1,69
100,0	4"	116,00	4,57	20	300	80	1200	450,0	17,72		3,690	2,48

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INDUSTRIAL HOSE

// 611AA


**Aircraft ground fuelling-defuelling 20 bar (300 psi)
EN ISO 1825/F**
Tube: black NBR.**Reinforcement:** high tensile textile cords with embedded nylon helix.**Cover:** black conductive CR - abrasion, ozone and hydrocarbon resistant.**Application:** aircraft ground fuelling and defuelling.**Constant operation:** -30 °C +65 °C (-22 °F +150 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"	41,00	1,61	20	300	80	1200	150,0	5,91	65	0,850	0,58
32,0	1 1/4"	48,00	1,89	20	300	80	1200	190,0	7,48	65	1,060	0,72
38,0	1 1/2"	54,00	2,13	20	300	80	1200	225,0	8,86	65	1,230	0,83
50,0	2"	67,00	2,64	20	300	80	1200	275,0	10,83	65	1,860	1,26
63,0	2 1/2"	81,00	3,19	20	300	80	1200	300,0	11,81	65	2,390	1,61
75,0	3"	93,00	3,66	20	300	80	1200	300,0	11,81	65	2,850	1,92

// 614AA

**Hot tar 10 bar (150 psi)****Tube:** black NBR.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** black CSM - abrasion and ozone resistant.**Application:** hot tar, asphalt and bitumen suction and delivery.**Constant operation:** -20 °C +180 °C (-4 °F +356 °F)

↔		↔		↕		↕		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"	69,00	2,72	10	150	40	600	255,0	10,04	100	2,280	1,54
76,0	3"	96,00	3,78	10	150	40	600	380,0	14,96	90	3,780	2,55
102,0	4"	122,00	4,80	10	150	40	600	510,0	20,08	90	5,040	3,39