



// MANDREL

132AE	28	341AA	66	605AH	113	720LG	84
140AK	27	341AH	66	606AE	113	737AA	97
141AA	142	343AH	65	60DAA	125	740AA	98
142AK	27	344AH	65	60GAA	126	741AA	98
146AK	142	345AA	66	60NAA	126	748AA	134
151AA	140	350AA	63	60PAA	127	752AA	94
151AK	140	350LE	62	611AA	117	753AA	91
155AA	26	350LL	62	612AA	147	753AG	92
155AK	26	351LG	61	614AA	118	753AH	91
157AK	141	351LL	61	615AA	132	754AA	97
160AA	29	352AA	60	619AA	114	755AA	92
202AA	46	354AA	63	620AA	115	756AA	145
202LL	120	402LH	72	622AA	133	757AA	94
203AL	56	405LE	76	629AA	113	758AA	95
204AA	46	405LH	77	648AA	132	760AA	87
212AA	54	405LL	76	64AAA	125	760LA	83
221AA	47	410LL	73	64DAA	127	760LB	83
222AA	48	412LE	74	64PAA	128	765AA	145
223AA	47	415LI	135	650AA	110	766AA	87
225AA	144	417LE	77	650AB	111	776AA	146
240AA	143	418LE	74	650AH	110	776HA	146
241AA	143	448LI	135	653AA	121	902AA	32
245AA	144	452LH	72	655AA	114	902AE	32
248AE	49	455LE	75	656AA	117	902LE	33
250AA	39	455LL	75	658AA	115	903LE	33
251AA	54	503AA	103	659AA	116	906AA	130
253AA	39	505OG	103	6E1AA	122	949AA	85
254AA	40	509OE	104	702AA	52	952AA	31
254AH	40	519OE	105	706AA	145	954AH	101
254AL	56	529AA	104	714HA	146	956AB	102
256AA	40	538AA	105	715AA	134	957LL	57
340AA	64	601AA	112	720AA	88	962LA	31
340AH	64	605AA	112,123	720LA	84	964AA	147

// LONG LENGTH

071AI	19	081AH	16	180AA	23	671AA	109
071EH	19	088AI	16	185AA	23	680AA	109
071EI	19	165AA	29	185AH	24	687AA	108
076AE	17	166AA	29	185AK	24	688AA	108
076AH	17	175AA	25	186AA	24	689AA	108
076AI	17	175AH	25	283AA	54	974AH	100
076EH	18	175AK	25	284AA	37	975AH	101
076EI	18	179AA	28	284AH	37	976AB	102
081AE	16	179AB	28	375AA	60	984AH	100

// THERMOPLASTIC PRESSURE

189AK	141	286EE	38	395BT	61	591AE	51
191AK	22	288HH	38	490OO	36	593AK	51
195AT	22	289GG	143	492OO	36,70		

// THERMOPLASTIC SUCTION

161BL	11	178AA	12	266OL	42	472OO	45,71
163AL	11	264GL	41	267BE	43	668EL	111
171OO	13	265TH	43	268BL	44	764OL	94
172OO	13	266GL	41	268LL	48	767AL	88
173OO	14	266KL	42	269BA	44	780AA	89
174BB	12	266LL	120	466OL	70	967OE	85
177OO	14	266OA	52	468OH	71		

// INDUSTRIAL HOSE

// DUCTING & VENTILATION.....	10
// GAS & WELDING	15
// COMPRESSED AIR	21
// HOT AIR.....	30
// WATER & LIQUIDS.....	35
// AGRICULTURE.....	50
// FIRE FIGHTING.....	53
// FURNACE & CABLE COOLING.....	55
// HOT WATER & STEAM.....	59
// LIQUID FOOD	69
// BULK FOOD.....	82
// BULK MATERIAL	86
// SANDBLAST	90
// PLASTER	93
// CONCRETE.....	96
// ACID CHEMICAL & MULTIPURPOSE.....	99
// HYDROCARBONS	107
// MARINE	119
// DOCK.....	124
// RIG SUPPLY	131
// MINING	139



// DUCTING & VENTILATION



161BL	Air ducting - UL 94 V2.....	11
163AL	General purpose.....	11
174BB	Air ducting - High temperature +100 °C (+212 °F) - UL 94 V0.....	12
178AA	Air ducting - High temperature +120 °C (+248 °F).....	12
17100	Air ducting - Polyurethane - Gauge 0,4 mm.....	13
17200	Air ducting - Polyurethane - Gauge 0,8 mm.....	13
17300	Air ducting - Polyurethane - Gauge 1,2 mm.....	14
17700	Air ducting - Polyurethane - Gauge 1,7 mm.....	14

Dimensions shown may be changed without prior notice

// 161BL

**Air ducting
UL 94 V2****Construction:** grey PVC - abrasion and ozone resistant.**Reinforcement:** white shock resistant rigid PVC.**Application:** air, gas, fumes extraction. Air conditioning-ventilation.**Constant operation:** -10 °C +60 °C (+14 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
20,0	13/16"							20,0	0,79	50	0,130	0,09
25,0	1"							25,0	0,98	50	0,170	0,12
32,0	1 1/4"							32,0	1,26	50	0,230	0,16
35,0	1 3/8"							35,0	1,38	50	0,250	0,17
40,0	1 9/16"							40,0	1,57	40	0,300	0,21
45,0	1 3/4"							45,0	1,77	40	0,350	0,24
51,0	2"							51,0	2,01	40	0,440	0,30
63,0	2 1/2"							63,0	2,48	40	0,560	0,38
70,0	2 3/4"							70,0	2,76	40	0,630	0,43
76,0	3"							76,0	2,99	40	0,700	0,48
80,0	3 1/8"							80,0	3,15	40	0,760	0,52
90,0	3 1/2"							90,0	3,54	40	0,850	0,58
102,0	4"							102,0	4,02	40	0,990	0,67
110,0	4 5/16"							110,0	4,33	40	1,100	0,74
120,0	4 3/4"							120,0	4,72	40	1,200	0,81
127,0	5"							127,0	5,00	40	1,270	0,86
140,0	5 1/2"							140,0	5,51	35	1,450	0,98
152,0	6"							152,0	5,98	35	1,700	1,15
160,0	6 5/16"							160,0	6,30	35	1,850	1,25
180,0	7 1/16"							180,0	7,09	30	2,200	1,48
203,0	8"							203,0	7,99	30	2,450	1,65
254,0	10"							254,0	10,00	10	3,200	2,16
305,0	12"							305,0	12,01	10	3,900	2,63

// 163AL

**General purpose****Construction:** black PVC - abrasion and ozone resistant.**Reinforcement:** white shock resistant rigid PVC.**Application:** general purpose designed for gas vent, air seeder and marine bilge pump applications - ID 51 mm according to AS 1425/2.22.**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"							25,0	0,98	50	0,230	0,16
28,0	1 1/8"							28,0	1,10	50	0,250	0,17
32,0	1 1/4"							32,0	1,26	50	0,300	0,21
38,0	1 1/2"							38,0	1,50	50	0,380	0,26
51,0	2"							102,0	4,02	50	0,700	0,48

// 174BB



**Air ducting - High temperature +100 °C (+212 °F)
UL 94 V0**

Construction: textile fabric coated with flame resistant PVC.
Reinforcement: steel helix wire.
Application: hot air, gas, fumes extraction. Air conditioning-ventilation.
Constant operation: -20 °C +100 °C (-4 °F +212 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
40,0	1 9/16"							20,0	0,79		0,110	0,08
51,0	2"							25,0	0,98		0,135	0,10
63,0	2 1/2"							30,0	1,18		0,170	0,12
70,0	2 3/4"							35,0	1,38		0,185	0,13
76,0	3"							40,0	1,57		0,200	0,14
80,0	3 1/8"							40,0	1,57		0,210	0,15
90,0	3 1/2"							45,0	1,77		0,240	0,17
102,0	4"							50,0	1,97		0,280	0,19
120,0	4 3/4"							60,0	2,36		0,325	0,22
127,0	5"							63,0	2,48		0,345	0,24
140,0	5 1/2"							70,0	2,76		0,380	0,26
152,0	6"							75,0	2,95		0,410	0,28
160,0	6 5/16"							80,0	3,15		0,425	0,29
180,0	7 1/16"							90,0	3,54		0,475	0,32
203,0	8"							100,0	3,94		0,535	0,36
254,0	10"							125,0	4,92		0,845	0,57
305,0	12"							150,0	5,91		1,010	0,68

// 178AA



Air ducting - High temperature +120 °C (+248 °F)

Construction: black EPDM/PP fully recyclable and halogens/phthalates free.
Reinforcement: steel helix wire.
Application: hot air, gas, fumes extraction-ventilation where high temperature resistance is required.
Constant operation: -40 °C +120 °C (-40 °F +248 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
40,0	1 9/16"							32,0	1,26		0,200	0,14
51,0	2"							40,0	1,57		0,250	0,17
63,0	2 1/2"							55,0	2,17		0,310	0,21
70,0	2 3/4"							60,0	2,36		0,440	0,30
76,0	3"							65,0	2,56		0,460	0,31
80,0	3 1/8"							65,0	2,56		0,500	0,34
90,0	3 1/2"							75,0	2,95		0,580	0,39
102,0	4"							85,0	3,35		0,610	0,41
110,0	4 5/16"							90,0	3,54		0,660	0,45
120,0	4 3/4"							100,0	3,94		0,720	0,49
127,0	5"							105,0	4,13		0,830	0,56
140,0	5 1/2"							115,0	4,53		0,940	0,64
152,0	6"							125,0	4,92		1,010	0,68
160,0	6 5/16"							130,0	5,12		1,090	0,74
180,0	7 1/16"							150,0	5,91		1,330	0,90
203,0	8"							165,0	6,50		1,480	1,00
254,0	10"							210,0	8,27		1,930	1,30
305,0	12"							250,0	9,84		2,380	1,60
355,0	14"							300,0	11,81		2,770	1,87
406,0	16"							350,0	13,78		3,210	2,16

Dimensions shown may be changed without prior notice

// 17100

**Air ducting - Polyurethane - Gauge 0,4 mm**

Construction: transparent polyurethane - abrasion and ozone resistant.

Reinforcement: copper plated steel helix wire.

Application: air, gas, fumes extraction-ventilation. Also suitable for abrasive material suction - good oil mist resistance.

Constant operation: -40 °C +85 °C (-40 °F +185 °F)

↔		↔		↻		↻		⤴		⤵		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
40,0	1 9/16"							44,0	1,73	35	0,170	0,12
51,0	2"							55,0	2,17	25	0,220	0,15
63,0	2 1/2"							67,0	2,64	25	0,270	0,19
70,0	2 3/4"							74,0	2,91	25	0,280	0,19
76,0	3"							80,0	3,15	25	0,350	0,24
80,0	3 1/8"							84,0	3,31	20	0,370	0,25
90,0	3 1/2"							94,0	3,70	20	0,420	0,29
102,0	4"							106,0	4,17	10	0,470	0,32
110,0	4 5/16"							114,0	4,49	10	0,510	0,35
120,0	4 3/4"							124,0	4,88	10	0,550	0,37
127,0	5"							132,0	5,20	10	0,750	0,51
140,0	5 1/2"							145,0	5,71	10	0,830	0,56
152,0	6"							157,0	6,18	10	0,900	0,61
160,0	6 5/16"							165,0	6,50	6	0,940	0,64
180,0	7 1/16"							185,0	7,28	6	1,060	0,72
203,0	8"							209,0	8,23	6	1,190	0,80
254,0	10"							260,0	10,24	2	1,960	1,32
305,0	12"							311,0	12,24	2	2,350	1,58
355,0	14"							362,0	14,25	2	2,700	1,82
406,0	16"							412,0	16,22	2	3,080	2,07

// 17200

**Air ducting - Polyurethane - Gauge 0,8 mm**

Construction: transparent polyurethane - abrasion and ozone resistant.

Reinforcement: copper plated steel helix wire.

Application: air, gas, fumes extraction-ventilation. Also suitable for abrasive material suction - good oil mist resistance.

Constant operation: -40 °C +85 °C (-40 °F +185 °F)

↔		↔		↻		↻		⤴		⤵		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
40,0	1 9/16"							46,0	1,81	55	0,310	0,21
51,0	2"							57,0	2,24	40	0,390	0,27
63,0	2 1/2"							69,0	2,72	25	0,480	0,33
76,0	3"							82,0	3,23	40	0,560	0,38
80,0	3 1/8"							88,0	3,46	35	0,590	0,40
102,0	4"							109,0	4,29	30	0,900	0,61
120,0	4 3/4"							127,0	5,00	30	1,040	0,70
127,0	5"							134,0	5,28	30	1,100	0,74
140,0	5 1/2"							147,0	5,79	30	1,210	0,82
152,0	6"							159,0	6,26	30	1,310	0,89
160,0	6 5/16"							167,0	6,57	25	1,380	0,93
180,0	7 1/16"							187,0	7,36	25	1,550	1,05
203,0	8"							210,0	8,27	25	2,150	1,45
254,0	10"							261,0	10,28	15	2,650	1,79
305,0	12"							312,0	12,28	15	3,180	2,14
315,0	12 3/8"							322,0	12,68	15	3,290	2,22

// 17300



Air ducting - Polyurethane - Gauge 1,2 mm

Construction: transparent polyurethane - abrasion and ozone resistant.

Reinforcement: copper plated steel helix wire.

Application: air, gas, fumes extraction-ventilation. Also suitable for abrasive material suction - good oil mist resistance.

Constant operation: -40 °C +85 °C (-40 °F +185 °F)

↔		↔		↻		↻		⤴		⤵	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"							71,0	2,80	60	0,610	0,41
63,0	2 1/2"							85,0	3,35	60	0,750	0,51
76,0	3"							101,0	3,98	60	0,870	0,59
80,0	3 1/8"							106,0	4,17	50	0,920	0,62
102,0	4"							133,0	5,24	40	1,360	0,92
152,0	6"							193,0	7,60	40	2,010	1,36
203,0	8"							254,0	10,00	30	2,680	1,81
254,0	10"							313,0	12,32	25	3,350	2,26
305,0	12"							374,0	14,72	25	4,010	2,70
355,0	14"							437,0	17,20	25	4,600	3,10

// 17700



Air ducting - Polyurethane - Gauge 1,7 mm

Construction: transparent polyurethane - abrasion and ozone resistant.

Reinforcement: copper plated steel helix wire.

Application: air, gas, fumes extraction-ventilation. Also suitable for abrasive material suction - good oil mist resistance.

Constant operation: -40 °C +85 °C (-40 °F +185 °F)

↔		↔		↻		↻		⤴		⤵	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
40,0	1 9/16"							75,0	2,95	80	0,630	0,43
51,0	2"							92,0	3,62	70	0,790	0,54
63,0	2 1/2"							110,0	4,33	70	0,970	0,66
76,0	3"							129,0	5,08	70	1,140	0,77
102,0	4"							170,0	6,69	50	1,710	1,15
127,0	5"							207,0	8,15	50	2,120	1,43
152,0	6"							245,0	9,65	50	2,540	1,71



// GAS & WELDING



081AE	Oxygen 20 bar (300 psi).....	16
081AH	Acetylene 20 bar (300 psi).....	16
088AI	LPG-natural gas 25 bar (375 psi).....	16
076AE	Oxygen welding 20 bar (300 psi) - EN ISO 3821.....	17
076AH	Acetylene welding 20 bar (300 psi) - EN ISO 3821.....	17
076AI	LPG welding 20 bar (300 psi) - EN ISO 3821.....	17
076EH	Oxygen/acetylene twin welding 20 bar (300 psi) - EN ISO 3821.....	18
076EI	Oxygen/LPG twin welding 20 bar (300 psi) - EN ISO 3821.....	18
071AI	LPG welding 12 bar (180 psi) - **xr-nt**.....	19
071EH	Oxygen/acetylene twin welding 12 bar (180 psi) - AS 1335.....	19
071EI	Oxygen/LPG twin welding 12 bar (180 psi) - AS 1335.....	19

// 081AE



Oxygen 20 bar (300 psi)

Tube: black synthetic elastomer.
Reinforcement: high tensile textile cords.
Cover: blue synthetic elastomer - abrasion and ozone resistant.
Application: oxygen.
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	20	300	60	900	48,0	1,89		0,140	0,10
8,0	5/16"	15,00	0,59	20	300	60	900	64,0	2,52		0,170	0,12
10,0	3/8"	17,00	0,67	20	300	60	900	80,0	3,15		0,205	0,14

// 081AH



Acetylene 20 bar (300 psi)

Tube: black synthetic elastomer.
Reinforcement: high tensile textile cords.
Cover: red synthetic elastomer - abrasion and ozone resistant.
Application: acetylene.
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	20	300	60	900	48,0	1,89		0,140	0,10
8,0	5/16"	15,00	0,59	20	300	60	900	64,0	2,52		0,170	0,12
10,0	3/8"	17,00	0,67	20	300	60	900	80,0	3,15		0,205	0,14

// 088AI



LPG-natural gas 25 bar (375 psi)

Tube: black synthetic elastomer.
Reinforcement: high tensile textile cords.
Cover: orange synthetic elastomer - abrasion and ozone resistant.
Application: LPG-natural gas.
Constant operation: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		↙		↘		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
8,0	5/16"	15,00	0,59	25	375	75	1100	64,0	2,52		0,170	0,12
10,0	3/8"	17,00	0,67	25	375	75	1100	80,0	3,15		0,200	0,14

Dimensions shown may be changed without prior notice

// 076AE

**Oxygen welding 20 bar (300 psi)
EN ISO 3821****Tube:** black SBR.**Reinforcement:** high tensile textile cords.**Cover:** blue SBR/EPDM - abrasion and ozone resistant.**Application:** oxygen welding.**Constant operation:** -25 °C +80 °C (-13 °F +176 °F)

↔		↔		↻		↻		↷		⚠		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	13,00	0,51	20	300	60	900	80,0	3,15		0,170	0,12
8,0	5/16"	15,00	0,59	20	300	60	900	80,0	3,15		0,200	0,14
10,0	3/8"	17,00	0,67	20	300	60	900	100,0	3,94		0,240	0,17

// 076AH

**Acetylene welding 20 bar (300 psi)
EN ISO 3821****Tube:** black SBR.**Reinforcement:** high tensile textile cords.**Cover:** red SBR/EPDM - abrasion and ozone resistant.**Application:** acetylene welding.**Constant operation:** -25 °C +80 °C (-13 °F +176 °F)

↔		↔		↻		↻		↷		⚠		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	13,00	0,51	20	300	60	900	80,0	3,15		0,170	0,12
8,0	5/16"	15,00	0,59	20	300	60	900	80,0	3,15		0,200	0,14
10,0	3/8"	17,00	0,67	20	300	60	900	100,0	3,94		0,240	0,17

// 076AI

**LPG welding 20 bar (300 psi)
EN ISO 3821****Tube:** black NBR.**Reinforcement:** high tensile textile cords.**Cover:** orange SBR/EPDM - abrasion and ozone resistant.**Application:** LPG welding.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		↷		⚠		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	13,00	0,51	20	300	60	900	80,0	3,15		0,160	0,11
8,0	5/16"	15,00	0,59	20	300	60	900	80,0	3,15		0,190	0,13
10,0	3/8"	17,00	0,67	20	300	60	900	100,0	3,94		0,220	0,15

// 076EH

**Oxygen/acetylene twin welding 20 bar (300 psi)
EN ISO 3821****Tube:** black SBR.**Reinforcement:** high tensile textile cords.**Cover:** blue, red SBR/EPDM - abrasion and ozone resistant.**Application:** oxygen/acetylene twin welding.**Constant operation:** -25 °C +80 °C (-13 °F +176 °F)

↔		↔		↻		↻		⌒		⌒		⌒	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
6,0	1/4"	13,00	0,51	20	300	60	900	80,0	3,15		0,360	0,25	
8,0	5/16"	15,00	0,59	20	300	60	900	80,0	3,15		0,410	0,28	
10,0	3/8"	17,00	0,67	20	300	60	900	100,0	3,94		0,500	0,34	

// 076EI

**Oxygen/LPG twin welding 20 bar (300 psi)
EN ISO 3821****Tube:** black SBR.**Reinforcement:** high tensile textile cords.**Cover:** blue, orange SBR/EPDM - abrasion and ozone resistant.**Application:** oxygen/LPG twin welding.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⌒		⌒		⌒	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
8,0	5/16"	15,00	0,59	20	300	60	900	80,0	3,15		0,400	0,27	

Dimensions shown may be changed without prior notice

// 071AI

**LPG welding 12 bar (180 psi)****Tube:** black NBR.**Reinforcement:** high tensile textile cords.**Cover:** orange SBR/EPDM - abrasion and ozone resistant.**Application:** LPG welding.**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	12	180	48	720	50,0	1,97		0,140	0,10

// 071EH

**Oxygen/acetylene twin welding 12 bar (180 psi)
AS 1335****Tube:** black SBR.**Reinforcement:** high tensile textile cords.**Cover:** blue, red SBR/EPDM - abrasion and ozone resistant.**Application:** oxygen/acetylene twin welding.**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	12	180	36	540	50,0			0,280	0,19

// 071EI

**Oxygen/LPG twin welding 12 bar (180 psi)
AS 1335****Tube:** black SBR-NBR.**Reinforcement:** high tensile textile cords.**Cover:** blue, orange SBR/EPDM - abrasion and ozone resistant.**Application:** oxygen/LPG twin welding.**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	12	180	48	720	50,0	1,97		0,280	0,19



// COMPRESSED AIR



195AT	Compressed air 20 bar (300 psi) - Polyurethane - Pneumatic tools	22
191AK	Compressed air 20 bar (300 psi) - PVC - exceeds AS/NZS 2554/B	22
180AA	Compressed air 20 bar (300 psi)	23
185AA	Compressed air 20 bar (300 psi) - Standard duty - exceeds DIN 20018/1	23
185AH	Compressed air 20 bar (300 psi) - Standard duty	24
185AK	Compressed air 20 bar (300 psi) - Standard duty	24
186AA	Compressed air 20 bar (300 psi) - Heavy duty	24
175AA	Compressed air 20 bar (300 psi) - Standard duty	25
175AH	Compressed air 20 bar (300 psi) - Standard duty	25
175AK	Compressed air 20 bar (300 psi) - Standard duty	25
155AA	Compressed air 20 bar (300 psi) - Heavy duty	26
155AK	Compressed air 20 bar (300 psi) - Heavy duty	26
140AK	Compressed air - Steel braided	27
142AK	Compressed air 40 bar (600 psi) - High temperature - Oil resistant - Steel braided	27
132AE	Compressed air 80 bar (1200 psi) - High temperature - Steel braided	28
179AA	Push-loc/push-on	28
179AB	Push-loc/push-on	28
165AA	Air brake 10 bar (150 psi) - DIN 74310	29
166AA	Air brake 20 bar (300 psi) - SAE J1402	29
160AA	Railway air brake 20 bar (300 psi) - BS 3682/1 - AS 2435 - UIC 830-1/V	29

// 195AT



Compressed air 20 bar (300 psi) - Polyurethane - Pneumatic tools

Tube: black polyurethane/PVC - oil mist resistant.

Reinforcement: high tensile textile cords.

Cover: light blue synthetic elastomer - abrasion and ozone resistant.

Application: compressed air. Specially designed for pneumatic tools and paint spray.

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

↔		↔		↙		↘		⤴		⚠		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
6,0	1/4"	10,00	0,39	20	300	60	900	24,0	0,94		0,065	0,05	
8,0	5/16"	12,00	0,47	20	300	60	900	32,0	1,26		0,080	0,06	
10,0	3/8"	15,00	0,59	20	300	60	900	40,0	1,57		0,115	0,08	
13,0	1/2"	19,00	0,75	20	300	60	900	52,0	2,05		0,185	0,13	
16,0	5/8"	23,00	0,91	20	300	60	900	64,0	2,52		0,260	0,18	
19,0	3/4"	26,00	1,02	20	300	60	900	76,0	2,99		0,305	0,21	
25,0	1"	33,00	1,30	20	300	60	900	100,0	3,94		0,450	0,31	

// 191AK



Compressed air 20 bar (300 psi) - PVC exceeds AS/NZS 2554/B

Tube: black PVC - oil mist resistant.

Reinforcement: high tensile textile cords.

Cover: yellow ribbed PVC with longitudinal blue stripes - abrasion and ozone resistant.

Application: compressed air and general industrial applications. Also suitable for crop spraying of fertilizers, pesticides and weed killers.

Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↙		↘		⤴		⚠		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
10,0	3/8"	16,00	0,63	20	300	64	960	80,0	3,15		0,170	0,12	
13,0	1/2"	19,00	0,75	20	300	64	960	104,0	4,09		0,205	0,14	
19,0	3/4"	27,00	1,06	20	300	64	960	152,0	5,98		0,370	0,25	
25,0	1"	34,00	1,34	20	300	64	960	200,0	7,87		0,525	0,36	

Dimensions shown may be changed without prior notice

// 180AA

**Compressed air 20 bar (300 psi)****Tube:** black synthetic elastomer - oil mist resistant.**Reinforcement:** high tensile textile cords.**Cover:** black synthetic elastomer - abrasion and ozone resistant.**Application:** compressed air and general industrial applications.**Constant operation:** -10 °C +60 °C (+14 °F +140 °F)

↔		↔		↙		↘		⤴		⤵	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	19,00	0,75	20	300	60	900	104,0	4,09		0,210	0,15
19,0	3/4"	27,00	1,06	20	300	60	900	152,0	5,98		0,405	0,28
25,0	1"	34,00	1,34	20	300	60	900	200,0	7,87		0,575	0,39

// 185AA

**Compressed air 20 bar (300 psi) - Standard duty exceeds DIN 20018/1****Tube:** black synthetic elastomer - oil mist resistant.**Reinforcement:** high tensile textile cords.**Cover:** black synthetic elastomer with longitudinal yellow stripes - abrasion and ozone resistant.**Application:** compressed air and general industrial applications.**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"	12,00	0,47	20	300	60	900	48,0	1,89		0,120	0,09
8,0	5/16"	14,00	0,55	20	300	60	900	64,0	2,52		0,145	0,10
10,0	3/8"	17,00	0,67	20	300	60	900	80,0	3,15		0,205	0,14
13,0	1/2"	21,00	0,83	20	300	60	900	104,0	4,09		0,280	0,19
16,0	5/8"	24,00	0,94	20	300	60	900	128,0	5,04		0,350	0,24
19,0	3/4"	28,00	1,10	20	300	60	900	152,0	5,98		0,460	0,31
25,0	1"	35,00	1,38	20	300	60	900	200,0	7,87		0,645	0,44

// 185AH



Compressed air 20 bar (300 psi) - Standard duty

Tube: black synthetic elastomer - oil mist resistant.
Reinforcement: high tensile textile cords.
Cover: red synthetic elastomer - abrasion and ozone resistant.
Application: compressed air and general industrial applications.
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"	12,00	0,47	20	300	60	900	48,0	1,89		0,120	0,09
8,0	5/16"	14,00	0,55	20	300	60	900	64,0	2,52		0,145	0,10
10,0	3/8"	17,00	0,67	20	300	60	900	80,0	3,15		0,205	0,14
13,0	1/2"	21,00	0,83	20	300	60	900	104,0	4,09		0,280	0,19
19,0	3/4"	28,00	1,10	20	300	60	900	152,0	5,98		0,460	0,31
25,0	1"	35,00	1,38	20	300	60	900	200,0	7,87		0,645	0,44

// 185AK



Compressed air 20 bar (300 psi) - Standard duty

Tube: black synthetic elastomer - oil mist resistant.
Reinforcement: high tensile textile cords.
Cover: yellow synthetic elastomer - abrasion and ozone resistant.
Application: compressed air and general industrial applications.
Constant operation: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	21,00	0,83	20	300	60	900	104,0	4,09		0,325	0,22
19,0	3/4"	28,00	1,10	20	300	60	900	152,0	5,98		0,460	0,31
25,0	1"	35,00	1,38	20	300	60	900	200,0	7,87		0,645	0,44

// 186AA



Compressed air 20 bar (300 psi) - Heavy duty

Tube: black synthetic elastomer - oil mist resistant.
Reinforcement: high tensile textile cords.
Cover: black synthetic elastomer - abrasion and ozone resistant.
Application: compressed air and general industrial applications.
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"	14,00	0,55	20	300	60	900	48,0	1,89		0,185	0,13
8,0	5/16"	17,00	0,67	20	300	60	900	64,0	2,52		0,255	0,18
10,0	3/8"	19,00	0,75	20	300	60	900	80,0	3,15		0,300	0,21
13,0	1/2"	23,00	0,91	20	300	60	900	104,0	4,09		0,415	0,28
19,0	3/4"	30,00	1,18	20	300	60	900	152,0	5,98		0,575	0,39
25,0	1"	37,00	1,46	20	300	60	900	200,0	7,87		0,775	0,53

Dimensions shown may be changed without prior notice

// 175AA

**Compressed air 20 bar (300 psi) - Standard duty****Tube:** black SBR/NBR - oil mist resistant.**Reinforcement:** high tensile textile cords.**Cover:** black SBR - abrasion and ozone resistant.**Application:** compressed air and general industrial applications.**Constant operation:** -25 °C +80 °C (-13 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	12,00	0,47	20	300	60	900	80,0	3,15		0,160	0,11
8,0	5/16"	14,00	0,55	20	300	60	900	80,0	3,15		0,170	0,12
10,0	3/8"	17,00	0,67	20	300	60	900	100,0	3,94		0,245	0,17
13,0	1/2"	21,00	0,83	20	300	60	900	110,0	4,33		0,350	0,24
16,0	5/8"	24,00	0,94	20	300	60	900	140,0	5,51		0,415	0,28
19,0	3/4"	28,00	1,10	20	300	60	900	160,0	6,30		0,520	0,35
25,0	1"	35,00	1,38	20	300	60	900	210,0	8,27		0,780	0,53

// 175AH

**Compressed air 20 bar (300 psi) - Standard duty****Tube:** black EPDM.**Reinforcement:** high tensile textile cords.**Cover:** red EPDM - abrasion and ozone resistant.**Application:** compressed air 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
6,0	1/4"	16,00	0,63	20	300	80	1200	48,0	1,89		0,240	0,17
8,0	5/16"	16,00	0,63	20	300	80	1200	64,0	2,52		0,210	0,15
10,0	3/8"	18,00	0,71	20	300	80	1200	80,0	3,15		0,270	0,19
13,0	1/2"	22,00	0,87	20	300	80	1200	104,0	4,09		0,370	0,25
16,0	5/8"	25,00	0,98	17	250	68	986	128,0	5,04		0,450	0,31
19,0	3/4"	29,00	1,14	17	250	68	986	152,0	5,98		0,570	0,39
25,0	1"	36,00	1,42	14	200	56	800	200,0	7,87		0,760	0,52

// 175AK

**Compressed air 20 bar (300 psi) - Standard duty****Tube:** black NBR/SBR - oil mist resistant.**Reinforcement:** high tensile textile cords.**Cover:** yellow NBR/PVC - abrasion and ozone resistant.**Application:** compressed air and general industrial applications.**Constant operation:** -25 °C +80 °C (-13 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
10,0	3/8"	19,00	0,75	20	300	60	900	100,0	3,94		0,315	0,22
13,0	1/2"	23,00	0,91	20	300	60	900	110,0	4,33		0,435	0,30
19,0	3/4"	30,00	1,18	20	300	60	900	160,0	6,30		0,645	0,44
25,0	1"	37,00	1,46	20	300	60	900	210,0	8,27		0,890	0,60

// 155AA



Compressed air 20 bar (300 psi) - Heavy duty

Tube: black SBR/NBR - oil mist resistant.
Reinforcement: high tensile textile cords.
Cover: black SBR - abrasion and ozone resistant.
Application: compressed air designed for 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
19,0	3/4"	29,00	1,14	20	300	60	900				0,550	0,37
22,0	7/8"	32,00	1,26	20	300	60	900				0,620	0,42
25,0	1"	35,00	1,38	20	300	60	900				0,690	0,47
28,0	1 1/8"	38,00	1,50	20	300	60	900				0,790	0,54
30,0	1 3/16"	42,00	1,65	20	300	60	900				0,840	0,57
32,0	1 1/4"	44,00	1,73	20	300	60	900				0,880	0,60
35,0	1 3/8"	47,00	1,85	20	300	60	900				0,950	0,64
38,0	1 1/2"	50,00	1,97	20	300	60	900				1,030	0,70
40,0	1 9/16"	52,00	2,05	20	300	60	900				1,070	0,72
45,0	1 3/4"	57,00	2,24	20	300	60	900				1,200	0,81
48,0	1 7/8"	60,00	2,36	20	300	60	900				1,270	0,86
51,0	2"	63,00	2,48	20	300	60	900				1,330	0,90
51,0	2"	65,00	2,56	20	300	60	900				1,650	1,11
55,0	2 1/6"	69,00	2,72	20	300	50	730				1,760	1,19
60,0	2 3/8"	76,00	2,99	20	300	50	730				2,200	1,48
63,0	2 1/2"	79,00	3,11	20	300	50	730				2,290	1,54
76,0	3"	92,00	3,62	20	300	50	730				2,800	1,89
90,0	3 1/2"	106,00	4,17	20	300	50	730				3,240	2,18
102,0	4"	118,00	4,65	20	300	50	730				3,660	2,46
152,0	6"	170,00	6,69	20	300	50	730				6,220	4,19

// 155AK



Compressed air 20 bar (300 psi) - Heavy duty

Tube: black SBR/NBR - oil mist resistant.
Reinforcement: high tensile textile cords.
Cover: yellow SBR - abrasion and ozone resistant.
Application: compressed air designed for 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
13,0	1/2"	21,00	0,83	20	300	60	900				0,320	0,22
19,0	3/4"	29,00	1,14	20	300	60	900				0,550	0,37
25,0	1"	35,00	1,38	20	300	60	900				0,690	0,47
32,0	1 1/4"	44,00	1,73	20	300	60	900				0,890	0,60
38,0	1 1/2"	50,00	1,97	20	300	60	900				1,030	0,70
51,0	2"	65,00	2,56	20	300	60	900				1,660	1,12
63,0	2 1/2"	79,00	3,11	20	300	50	730				2,300	1,55
76,0	3"	92,00	3,62	20	300	50	730				2,810	1,89
102,0	4"	118,00	4,65	20	300	50	730				3,680	2,48

Dimensions shown may be changed without prior notice

// 140AK



Compressed air - Steel braided

Tube: black SBR - oil mist resistant.

Reinforcement: one or two high tensile steel wire braids.

Cover: yellow SBR - abrasion, ozone, hydrocarbon 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: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↙		↘		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	22,00	0,87	40	600	160	2320	65,0	2,56		0,410	0,28
19,0	3/4"	28,00	1,10	40	600	160	2320	95,0	3,74		0,560	0,38
25,0	1"	34,00	1,34	40	600	160	2320	125,0	4,92		0,700	0,48
32,0	1 1/4"	42,00	1,65	40	600	160	2320	160,0	6,30		0,990	0,67
38,0	1 1/2"	48,00	1,89	40	600	160	2320	190,0	7,48		1,180	0,80
51,0	2"	64,00	2,52	40	600	160	2320	255,0	10,04		2,000	1,35
63,0	2 1/2"	77,00	3,03	30	450	120	1750	315,0	12,40		2,810	1,89
76,0	3"	90,00	3,54	30	450	120	1750	380,0	14,96		3,480	2,34
102,0	4"	118,00	4,65	30	450	120	1750	510,0	20,08		4,500	3,03

// 142AK



Compressed air 40 bar (600 psi) - High temperature - Oil resistant - Steel braided

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)

↔		↔		↙		↘		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	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

// 132AE



Compressed air 80 bar (1200 psi) - High temperature - Steel braided

Tube: black chlorobutyl - oil mist (maximum six parts per million) and high temperature resistant.

Reinforcement: high tensile steel wire braids.

Cover: blue EPDM - abrasion and ozone 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. Designed for use of EN 853 2ST fittings.

Constant operation: -40 °C +150 °C (-40 °F +300 °F) with peaks of 232 °C (450 °F)

↔		↔		↻		↻		⤵		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"	67,00	2,64	80	1200	320	4640	255,0	10,04		2,620	1,77

// 179AA



Push-loc/push-on

Tube: black NBR/SBR - oil mist resistant.

Reinforcement: high tensile textile cords.

Cover: black SBR/CR - oil, abrasion and ozone resistant.

Application: "push-on" compressed air in automotive assembly lines and general industrial applications.

Constant operation: -20 °C +70 °C (-4 °F +158 °F)

↔		↔		↻		↻		⤵		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	12,00	0,47	20	300	80	1200	36,0	1,42		0,140	0,10
10,0	3/8"	16,00	0,63	20	300	80	1200	60,0	2,36		0,185	0,13
13,0	1/2"	19,00	0,75	20	300	80	1200	78,0	3,07		0,235	0,16
16,0	5/8"	23,00	0,91	20	300	80	1200	96,0	3,78		0,325	0,22
19,0	3/4"	26,00	1,02	20	300	80	1200	114,0	4,49		0,370	0,25

// 179AB



Push-loc/push-on

Tube: black NBR/SBR - oil mist resistant.

Reinforcement: high tensile textile cords.

Cover: grey SBR/CR - oil, abrasion and ozone resistant.

Application: "push-on" compressed air in automotive assembly lines and general industrial applications.

Constant operation: -20 °C +70 °C (-4 °F +158 °F)

↔		↔		↻		↻		⤵		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	12,00	0,47	20	300	80	1200	36,0	1,42		0,140	0,10
10,0	3/8"	16,00	0,63	20	300	80	1200	60,0	2,36		0,185	0,13
13,0	1/2"	19,00	0,75	20	300	80	1200	78,0	3,07		0,235	0,16
16,0	5/8"	23,00	0,91	20	300	80	1200	96,0	3,78		0,325	0,22

Dimensions shown may be changed without prior notice

// 165AA

**Air brake 10 bar (150 psi)
DIN 74310****Tube:** black EPDM.**Reinforcement:** high tensile textile cords.**Cover:** black EPDM - abrasion and ozone resistant.**Application:** air brake hose.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

↔		↔		↙		↘		⤴		⚖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
11,0	7/16"	18,00	0,71	10	150	25	375	70,0	2,76		0,210	0,15
13,0	1/2"	25,00	0,98	10	150	25	375	100,0	3,94		0,470	0,32

// 166AA

**Air brake 20 bar (300 psi)
SAE J1402****Tube:** black NBR.**Reinforcement:** high tensile textile cords.**Cover:** black NBR - abrasion and ozone resistant.**Application:** air brake hose.**Constant operation:** -40 °C +100 °C (-40 °F +212 °F)

↔		↔		↙		↘		⤴		⚖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
9,5	3/8"	19,00	0,75	20	300	60	900	90,0	3,54		0,320	0,22
14,5	37/64"	25,50	1,00	20	300	60	900	115,0	4,53		0,515	0,35

// 160AA

**Railway air brake 20 bar (300 psi)
BS 3682/1 - AS 2435 - UIC 830-1/V****Tube:** black SBR/NBR - oil mist resistant.**Reinforcement:** high tensile textile braids.**Cover:** black SBR/NBR - abrasion and ozone resistant.**Application:** railway air brake.**Constant operation:** -25 °C +65 °C (-13 °F +150 °F)

↔		↔		↙		↘		⤴		⚖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	25,00	0,98	20	300	80	1200				0,400	0,27
20,0	13/16"	34,00	1,34	20	300	80	1200				0,630	0,43
22,0	7/8"	36,00	1,42	20	300	80	1200				0,780	0,53
30,0	1 3/16"	46,00	1,81	20	300	80	1200				1,210	0,82
35,0	1 3/8"	53,00	2,09	20	300	80	1200				1,350	0,91



// HOT AIR



952AA	Hot air blower 10 bar (150 psi) - Soft wall - External textile braid.....	31
962LA	Hot air blower 10 bar (150 psi) - Soft wall.....	31
902AA	Hot air blower 10 bar (150 psi) - Hard wall.....	32
902AE	Hot air blower 10 bar (150 psi) - Hard wall.....	32
902LE	Hot air blower 10 bar (150 psi) - Hard wall.....	33
903LE	Hot air blower 10 bar (150 psi) - Hard wall - FDA.....	33

Dimensions shown may be changed without prior notice

// 952AA

**Hot air blower 10 bar (150 psi) - Soft wall - External textile braid****Tube:** black EPDM - heat resistant.**Reinforcement:** high tensile textile braids.**Application:** hot air connection from volumetric compressor to bulk food/material road tanker.**Constant operation:** -40 °C +180 °C (-40 °F +356 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"	67,00	2,64	10	150	30	450	255,0	10,04		1,580	1,07
76,0	3"	92,00	3,62	10	150	30	450	380,0	14,96		2,340	1,58

// 962LA

**Hot air blower 10 bar (150 psi) - Soft wall****Tube:** white EPDM - heat resistant.**Reinforcement:** high tensile textile cords.**Cover:** black EPDM - heat, abrasion and ozone resistant.**Application:** hot air connection from volumetric compressor to bulk food/material road tanker.**Constant operation:** -40 °C +180 °C (-40 °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	30	450	306,0	12,05		2,580	1,74
76,0	3"	94,00	3,70	10	150	30	450	456,0	17,95		3,490	2,35

// 902AA



Hot air blower 10 bar (150 psi) - Hard wall

Tube: black EPDM - heat resistant.

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

Cover: black EPDM - heat, abrasion and ozone resistant.

Application: hot air connection from volumetric compressor to bulk food/material road tanker. Special light weight and flexible construction.

Constant operation: -40 °C +180 °C (-40 °F +356 °F)

↔		↔		↻		↻		↷		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"	63,00	2,48	10	150	30	450	153,0	6,02	100	1,510	1,02
63,0	2 1/2"	77,00	3,03	10	150	30	450	189,0	7,44	100	2,000	1,35
76,0	3"	90,00	3,54	10	150	30	450	228,0	8,98	90	2,400	1,62
102,0	4"	116,00	4,57	10	150	30	450	306,0	12,05	90	3,330	2,24

// 902AE



Hot air blower 10 bar (150 psi) - Hard wall

Tube: black EPDM - heat resistant.

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

Cover: blue EPDM - heat, abrasion and ozone resistant.

Application: hot air connection from volumetric compressor to bulk food/material road tanker. Special light weight and flexible construction.

Constant operation: -40 °C +180 °C (-40 °F +356 °F)

↔		↔		↻		↻		↷		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
76,0	3"	90,00	3,54	10	150	30	450	228,0	8,98	90	2,310	1,56

Dimensions shown may be changed without prior notice

// 902LE

**Hot air blower 10 bar (150 psi) - Hard wall****Tube:** white EPDM - heat resistant.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** blue EPDM - heat, abrasion and ozone resistant.**Application:** hot air connection from volumetric compressor to bulk food/material road tanker. Special light weight and flexible construction.**Constant operation:** -40 °C +180 °C (-40 °F +356 °F)

↔		↔		↻	↻	↻	↻	↻	↻	↻	↻	↻
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"	63,00	2,48	10	150	30	450	153,0	6,02	100	1,560	1,05
53,0	2 1/16"	65,00	2,56	10	150	30	450	159,0	6,26	100	1,610	1,09
63,0	2 1/2"	77,00	3,03	10	150	30	450	189,0	7,44	90	2,380	1,60
76,0	3"	90,00	3,54	10	150	30	450	228,0	8,98	90	2,840	1,91
90,0	3 1/2"	104,00	4,09	10	150	30	450	270,0	10,63	90	3,520	2,37

// 903LE

**Hot air blower 10 bar (150 psi) - Hard wall FDA****Tube:** white EPDM - heat resistant.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** blue EPDM - heat, abrasion and ozone resistant.**Application:** hot air connection from volumetric compressor to bulk food/material road tanker. Special light weight and flexible construction.**Constant operation:** -40 °C +180 °C (-40 °F +356 °F)

↔		↔		↻	↻	↻	↻	↻	↻	↻	↻	↻
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
38,0	1 1/2"	50,00	1,97	10	150	30	450	114,0	4,49	100	1,140	0,77
51,0	2"	63,00	2,48	10	150	30	450	153,0	6,02	100	1,470	0,99
76,0	3"	90,00	3,54	10	150	30	450	228,0	8,98	90	2,670	1,80
102,0	4"	116,00	4,57	10	150	30	450	306,0	12,05	90	3,630	2,44
127,0	5"	145,00	5,71	10	150	30	450	445,0	17,52	80	6,060	4,08





4900O	General purpose tubing - PVC - FDA.....	36
492OO	General purpose food quality - PVC - FDA - EU 10/2011 A+B+C - AS 2070.....	36
284AA	Water delivery 10 bar (150 psi).....	37
284AH	Water delivery 10 bar (150 psi).....	37
286EE	Water discharge - PVC - Lay flat - Standard duty.....	38
288HH	Water discharge - PVC - Lay flat - Heavy duty.....	38
250AA	Water discharge 5 bar (75 psi) - Lay flat.....	39
253AA	Water discharge 10 bar (150 psi) - Lay flat.....	39
254AA	Air-water delivery 10 bar (150 psi).....	40
254AH	Air-water delivery 10 bar (150 psi).....	40
256AA	Water-irrigation 18 bar (270 psi) - Heavy duty.....	40
264GL	Water S&D - PVC - Light duty.....	41
266GL	Water S&D - PVC - Standard duty.....	41
266KL	Water S&D - PVC - Standard duty.....	42
266OL	Water S&D - PVC - Standard duty - Super elastic.....	42
265TH	Water-slurry S&D - PVC - Standard duty - Super elastic.....	43
267BE	Water-slurry S&D - PVC - Medium duty - Super elastic.....	43
269BA	Water-slurry S&D - PVC/NBR - Medium duty - Superior flexibility.....	44
268BL	Water-abrasive slurry S&D - PVC - Heavy duty.....	44
472OO	General purpose food quality S&D - PVC - FDA - EU 10/2011 A+B+C - AS 2070.....	45
204AA	Water S&D 5 bar (75 psi).....	46
202AA	General purpose S&D 10 bar (150 psi) - EPDM.....	46
223AA	Water S&D 20 bar (300 psi) - Heavy duty.....	47
221AA	Water-slurry S&D - Corrugated - Soft ends.....	47
222AA	Heavy duty dewatering - EPDM - Corrugated - Soft ends.....	48
268LL	Pools-spa water circulation.....	48
248AE	High pressure water delivery 100 bar (1500 psi) - Snow maker - Steel braided.....	49

// 49000



**General purpose tubing - PVC
FDA**

Tube: transparent PVC.
Application: general purpose. Sterilize with 5% soda solution.
Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↙		↘		↷		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
3,0	1/8"	5,00	0,20								0,015	0,02
4,0	5/32"	6,00	0,24								0,020	0,02
5,0	3/16"	8,00	0,31								0,040	0,03
6,0	1/4"	9,00	0,35								0,045	0,04
7,0	9/32"	11,00	0,43								0,070	0,05
8,0	5/16"	12,00	0,47								0,080	0,06
10,0	3/8"	14,00	0,55								0,095	0,07
12,0	15/32"	16,00	0,63								0,110	0,08
14,0	9/16"	19,00	0,75								0,160	0,11
16,0	5/8"	22,00	0,87								0,220	0,15
18,0	23/32"	24,00	0,94								0,245	0,17
20,0	13/16"	26,00	1,02								0,265	0,18
22,0	7/8"	28,00	1,10								0,290	0,20
25,0	1"	32,00	1,26								0,415	0,28

// 49200



**General purpose food quality - PVC
FDA - EU 10/2011 A+B+C - AS 2070**

Tube: transparent PVC.
Reinforcement: high tensile textile cords.
Cover: transparent PVC with longitudinal red stripes - abrasion and ozone resistant.
Application: general purpose food quality. Sterilize with 5% soda solution.
Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↙		↘		↷		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	11,00	0,43	20	300	60	900				0,085	0,06
6,0	1/4"	12,00	0,47	20	300	60	900				0,110	0,08
8,0	5/16"	13,00	0,51	15	225	45	650				0,105	0,08
8,0	5/16"	14,00	0,55	15	225	45	650				0,130	0,09
10,0	3/8"	15,00	0,59	15	225	45	650				0,125	0,09
10,0	3/8"	16,00	0,63	15	225	45	650				0,155	0,11
13,0	1/2"	19,00	0,75	10	150	30	450				0,190	0,13
16,0	5/8"	22,00	0,87	10	150	30	450				0,225	0,16
19,0	3/4"	25,00	0,98	10	150	30	450				0,260	0,18
19,0	3/4"	26,00	1,02	10	150	30	450				0,310	0,21
25,0	1"	32,00	1,26	10	150	30	450				0,390	0,27
25,0	1"	33,00	1,30	10	150	30	450				0,450	0,31
30,0	1 3/16"	38,00	1,50	7	100	21	300				0,530	0,36
32,0	1 1/4"	42,00	1,65	7	100	21	300				0,715	0,49
38,0	1 1/2"	48,00	1,89	7	100	21	300				0,830	0,56
51,0	2"	63,00	2,48	6	90	18	270				1,330	0,90

Dimensions shown may be changed without prior notice

// 284AA

**Water delivery 10 bar (150 psi)****Tube:** black synthetic elastomer - oil mist resistant.**Reinforcement:** high tensile textile cords.**Cover:** black synthetic elastomer with longitudinal green stripes - abrasion and ozone resistant.**Application:** air and water 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	
13,0	1/2"	19,00	0,75	10	150	30	450	104,0	4,09		0,205	0,14	
16,0	5/8"	22,00	0,87	10	150	30	450	128,0	5,04		0,245	0,17	
19,0	3/4"	26,00	1,02	10	150	30	450	152,0	5,98		0,345	0,24	
25,0	1"	33,00	1,30	10	150	30	450	200,0	7,87		0,510	0,35	
32,0	1 1/4"	44,00	1,73	7	100	21	300	256,0	10,08		0,950	0,64	

// 284AH

**Water delivery 10 bar (150 psi)****Tube:** black synthetic elastomer - oil mist resistant.**Reinforcement:** high tensile textile cords.**Cover:** red synthetic elastomer - abrasion and ozone resistant.**Application:** air and water 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	
13,0	1/2"	19,00	0,75	10	150	30	450	104,0	4,09		0,205	0,14	
19,0	3/4"	26,00	1,02	10	150	30	450	152,0	5,98		0,345	0,24	
25,0	1"	33,00	1,30	10	150	30	450	200,0	7,87		0,510	0,35	

// 286EE



Water discharge - PVC - Lay flat - Standard duty

Tube: blue PVC.
Reinforcement: high tensile textile cords.
Cover: blue PVC - abrasion and ozone resistant.
Application: lay flat water discharge.
Constant operation: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		↻		↻		⤴		⚖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
38,0	1 1/2"			5	75	15	225				0,210	0,15
51,0	2"			5	75	15	225				0,270	0,19
63,0	2 1/2"			4	60	12	180				0,380	0,26
76,0	3"			4	60	12	180				0,530	0,36
102,0	4"			4	60	12	180				0,710	0,48
152,0	6"			3	45	9	135				1,180	0,80
203,0	8"			3	45	9	135				1,800	1,21

// 288HH



Water discharge - PVC - Lay flat - Heavy duty

Tube: Red PVC.
Reinforcement: high tensile textile cords.
Cover: red PVC - abrasion and ozone resistant.
Application: lay flat water discharge.
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"			10	150	30	450				0,250	0,17
32,0	1 1/4"			10	150	30	450				0,300	0,21
38,0	1 1/2"			10	150	30	450				0,330	0,23
45,0	1 3/4"			10	150	30	450				0,430	0,29
51,0	2"			8	120	24	350				0,480	0,33
63,0	2 1/2"			8	120	24	350				0,590	0,40
76,0	3"			7	100	21	300				0,770	0,52
102,0	4"			6	90	18	270				0,980	0,66
152,0	6"			5	75	15	225				1,600	1,08

Dimensions shown may be changed without prior notice

// 250AA

**Water discharge 5 bar (75 psi) - Lay flat****Tube:** black EPDM.**Reinforcement:** high tensile textile cords.**Cover:** black EPDM - abrasion and ozone resistant.**Application:** lay flat water discharge.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
102,0	4"	110,00	4,33	5	75	15	225				1,670	1,13
152,0	6"	160,00	6,30	5	75	10	150				2,430	1,64
203,0	8"	213,00	8,39	5	75	10	150				3,260	2,20
254,0	10"	264,00	10,39	5	75	10	150				4,010	2,70

// 253AA

**Water discharge 10 bar (150 psi) - Lay flat****Tube:** black EPDM.**Reinforcement:** high tensile textile cords.**Cover:** black EPDM - abrasion and ozone resistant.**Application:** lay flat water discharge.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
32,0	1 1/4"	40,00	1,57	10	150	30	450				0,460	0,31
38,0	1 1/2"	46,00	1,81	10	150	30	450				0,540	0,37
40,0	1 9/16"	48,00	1,89	10	150	30	450				0,570	0,39
45,0	1 3/4"	53,00	2,09	10	150	30	450				0,660	0,45
51,0	2"	59,00	2,32	10	150	30	450				0,730	0,50
60,0	2 3/8"	68,00	2,68	10	150	30	450				0,860	0,58
63,0	2 1/2"	71,00	2,80	10	150	30	450				0,900	0,61
70,0	2 3/4"	78,00	3,07	10	150	30	450				1,200	0,81
76,0	3"	84,00	3,31	10	150	30	450				1,290	0,87
90,0	3 1/2"	98,00	3,86	10	150	30	450				1,490	1,01
102,0	4"	110,00	4,33	10	150	30	450				1,780	1,20
127,0	5"	137,00	5,39	10	150	30	450				2,420	1,63
152,0	6"	162,00	6,38	10	150	30	450				2,990	2,01
168,0	6 5/8"	178,00	7,01	10	150	30	450				3,250	2,19
203,0	8"	215,00	8,46	10	150	20	300				4,310	2,90
254,0	10"	270,00	10,63	10	150	20	300				7,680	5,17
305,0	12"	319,00	12,56	10	150	20	300				8,870	5,97

// 254AA



Air-water delivery 10 bar (150 psi)

Tube: black SBR.
Reinforcement: high tensile textile cords.
Cover: black SBR - abrasion and ozone resistant.
Application: air and water 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"	27,00	1,06	10	150	30	450				0,400	0,27
25,0	1"	33,00	1,30	10	150	30	450				0,540	0,37
32,0	1 1/4"	42,00	1,65	10	150	30	450				0,830	0,56
38,0	1 1/2"	48,00	1,89	10	150	30	450				0,980	0,66
51,0	2"	61,00	2,40	10	150	30	450				1,290	0,87
63,0	2 1/2"	75,00	2,95	10	150	30	450				1,920	1,30
76,0	3"	88,00	3,46	10	150	30	450				2,310	1,56
102,0	4"	114,00	4,49	10	150	30	450				3,120	2,10
152,0	6"	166,00	6,54	10	150	30	450				4,690	3,16
203,0	8"	219,00	8,62	10	150	20	300				6,950	4,68

// 254AH



Air-water delivery 10 bar (150 psi)

Tube: black SBR.
Reinforcement: high tensile textile cords.
Cover: red SBR - abrasion and ozone resistant.
Application: air and water 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
32,0	1 1/4"	42,00	1,65	10	150	30	450				0,830	0,56
38,0	1 1/2"	48,00	1,89	10	150	30	450				0,970	0,66
51,0	2"	61,00	2,40	10	150	30	450				1,290	0,87

// 256AA



Water-irrigation 18 bar (270 psi) - Heavy duty

Tube: black EPDM.
Reinforcement: high tensile textile cords.
Cover: black EPDM - abrasion and ozone resistant.
Application: heavy duty water discharge. Specially designed for high pressure irrigation systems.
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"	61,00	2,40	18	270	45	650				1,070	0,72
60,0	2 3/8"	72,00	2,83	18	270	45	650				1,390	0,94
70,0	2 3/4"	82,00	3,23	18	270	45	650				1,610	1,09
76,0	3"	88,00	3,46	18	270	45	650				1,720	1,16
80,0	3 1/8"	92,00	3,62	18	270	45	650				1,880	1,27
90,0	3 1/2"	102,00	4,02	18	270	45	650				2,080	1,40
102,0	4"	114,00	4,49	18	270	45	650				2,360	1,59
120,0	4 3/4"	132,00	5,20	18	270	45	650				2,870	1,93
152,0	6"	168,00	6,61	18	270	36	540				4,920	3,31

Dimensions shown may be changed without prior notice

// 264GL

**Water S&D - PVC - Light duty**

Construction: green transparent PVC - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

Application: water suction and delivery.

Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		⤴		⌘	⌘	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
20,0	13/16"			7	100	21	300	110,0	4,33	60	0,200	0,14
25,0	1"			7	100	21	300	138,0	5,43	60	0,250	0,17
32,0	1 1/4"			6	90	18	270	176,0	6,93	60	0,340	0,23
38,0	1 1/2"			5	75	15	225	209,0	8,23	60	0,440	0,30
51,0	2"			5	75	15	225	281,0	11,06	60	0,650	0,44

// 266GL

**Water S&D - PVC - Standard duty**

Construction: green transparent PVC - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

Application: water suction and delivery.

Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		⤴		⌘	⌘	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"			7	100	21	300	113,0	4,45	70	0,290	0,20
32,0	1 1/4"			6	90	18	270	144,0	5,67	70	0,390	0,27
38,0	1 1/2"			5	75	15	225	171,0	6,73	70	0,510	0,35
45,0	1 3/4"			5	75	15	225	203,0	7,99	70	0,670	0,46
51,0	2"			5	75	15	225	230,0	9,06	70	0,760	0,52
63,0	2 1/2"			5	75	15	225	284,0	11,18	70	0,970	0,66
76,0	3"			5	75	15	225	342,0	13,46	70	1,330	0,90
90,0	3 1/2"			4	60	12	180	405,0	15,94	70	1,800	1,21
102,0	4"			4	60	12	180	459,0	18,07	70	2,190	1,48
127,0	5"			3	45	9	135	597,0	23,50	50	2,900	1,95
152,0	6"			3	45	9	135	714,0	28,11	50	4,000	2,69
203,0	8"			2	30	6	90	954,0	37,56	40	6,200	4,17

// 266KL



Water S&D - PVC - Standard duty

Construction: Yellow transparent PVC - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

Application: water suction and delivery.

Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
20,0	13/16"			7	100	21	300	90,0	3,54	70	0,230	0,16
25,0	1"			7	100	21	300	113,0	4,45	70	0,290	0,20
30,0	1 3/16"			6	90	18	270	135,0	5,31	70	0,360	0,25
32,0	1 1/4"			6	90	18	270	144,0	5,67	70	0,390	0,27
35,0	1 3/8"			6	90	18	270	158,0	6,22	70	0,440	0,30
38,0	1 1/2"			5	75	15	225	171,0	6,73	70	0,510	0,35
40,0	1 9/16"			5	75	15	225	180,0	7,09	70	0,540	0,37
45,0	1 3/4"			5	75	15	225	203,0	7,99	70	0,670	0,46
51,0	2"			5	75	15	225	230,0	9,06	70	0,760	0,52
60,0	2 3/8"			5	75	15	225	270,0	10,63	70	0,920	0,62
63,0	2 1/2"			5	75	15	225	284,0	11,18	70	0,970	0,66
76,0	3"			5	75	15	225	342,0	13,46	70	1,330	0,90
80,0	3 1/8"			4	60	12	180	360,0	14,17	70	1,450	0,98
102,0	4"			4	60	12	180	459,0	18,07	70	2,190	1,48

// 2660L



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

Construction: transparent PVC - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

Application: water suction and delivery. Good flexibility at low temperature.

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

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
38,0	1 1/2"			5	75	15	225	152,0	5,98	60	0,510	0,35
45,0	1 3/4"			5	75	15	225	180,0	7,09	60	0,670	0,46
51,0	2"			5	75	15	225	204,0	8,03	60	0,760	0,52

Dimensions shown may be changed without prior notice

// 265TH

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

Construction: 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)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	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

// 267BE

**Water-slurry S&D - PVC - Medium duty - Super elastic**

Construction: grey PVC with helical blue stripe - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

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

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

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"			7	100	21	300	100,0	3,94	90	0,415	0,28
32,0	1 1/4"			7	100	21	300	128,0	5,04	90	0,605	0,41
38,0	1 1/2"			7	100	21	300	152,0	5,98	90	0,705	0,48
51,0	2"			5	75	15	225	204,0	8,03	90	1,000	0,68
60,0	2 3/8"			5	75	15	225	240,0	9,45	90	1,280	0,87
63,0	2 1/2"			5	75	15	225	252,0	9,92	90	1,340	0,91
76,0	3"			5	75	15	225	304,0	11,97	90	1,750	1,18
80,0	3 1/8"			5	75	15	225	320,0	12,60	90	1,840	1,24
90,0	3 1/2"			4	60	12	180	360,0	14,17	90	2,260	1,52
102,0	4"			4	60	12	180	408,0	16,06	90	2,700	1,82
110,0	4 5/16"			4	60	12	180	440,0	17,32	90	3,100	2,09
120,0	4 3/4"			4	60	12	180	480,0	18,90	90	3,600	2,42
127,0	5"			4	60	12	180	508,0	20,00	90	3,800	2,56
152,0	6"			3	45	9	135	608,0	23,94	90	4,850	3,26
203,0	8"			3	45	9	135	812,0	31,97	90	9,100	6,12

// 269BA



Water-slurry S&D - PVC/NBR - Medium duty - Superior flexibility



Construction: grey PVC/NBR - abrasion and ozone resistant.

Reinforcement: black shock resistant rigid PVC.

Application: water suction and delivery. Special construction for slurry tankers and general applications. Superior flexibility at low temperature.

Constant operation: -30 °C +60 °C (-22 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"			5	75	15	225	178,0	7,01	90	1,010	0,68
63,0	2 1/2"			5	75	15	225	220,0	8,66	90	1,365	0,92
76,0	3"			5	75	15	225	266,0	10,47	90	1,765	1,19
90,0	3 1/2"			4	60	12	180	315,0	12,40	90	2,265	1,53
102,0	4"			4	60	12	180	357,0	14,06	90	2,720	1,83
127,0	5"			3	45	9	135	444,0	17,48	90	3,830	2,58
152,0	6"			3	45	9	135	532,0	20,94	90	4,935	3,32

// 268BL



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



Construction: grey PVC - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

Application: heavy duty water suction and delivery. Also suitable for abrasive slurries transfer.

Constant operation: -5 °C +60 °C (+23 °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	0,520	0,35
32,0	1 1/4"			6	90	18	270	192,0	7,56	90	0,650	0,44
38,0	1 1/2"			6	90	18	270	228,0	8,98	90	0,760	0,52
51,0	2"			5	75	15	225	306,0	12,05	90	1,100	0,74
63,0	2 1/2"			4	60	12	180	378,0	14,88	90	1,550	1,05
76,0	3"			4	60	12	180	456,0	17,95	90	1,900	1,28
80,0	3 1/8"			4	60	12	180	480,0	18,90	90	2,100	1,42
90,0	3 1/2"			4	60	12	180	540,0	21,26	90	2,500	1,69
102,0	4"			3	45	9	135	612,0	24,09	90	3,200	2,16
127,0	5"			3	45	9	135	762,0	30,00	90	4,200	2,83
152,0	6"			2	30	6	90	912,0	35,91	90	6,000	4,04
203,0	8"			2	30	6	90	1218,0	47,95	60	10,000	6,73

Dimensions shown may be changed without prior notice

// 47200


General purpose food quality S&D - PVC
FDA - EU 10/2011 A+B+C - AS 2070
Construction: transparent PVC - abrasion and ozone resistant.

Reinforcement: Steel helix wire.

Application: general purpose liquid food and alcoholic beverages suction and delivery - max 20% - Sterilize with 5% soda solution.

Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↙		↘		↵		⌘		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
10,0	3/8"	16,00	0,63	15	225	45	650	40,0	1,57	90	0,160	0,11
13,0	1/2"	19,00	0,75	7	100	21	300	52,0	2,05	85	0,195	0,14
14,0	9/16"	20,00	0,79	6	90	18	270	56,0	2,20	85	0,210	0,15
16,0	5/8"	22,00	0,87	6	90	18	270	64,0	2,52	85	0,250	0,17
18,0	23/32"	26,00	1,02	6	90	18	270	72,0	2,83	85	0,300	0,21
20,0	13/16"	28,00	1,10	5	75	15	225	80,0	3,15	85	0,330	0,23
22,0	7/8"	30,00	1,18	5	75	15	225	88,0	3,46	85	0,380	0,26
25,0	1"	33,00	1,30	5	75	15	225	100,0	3,94	85	0,515	0,35
30,0	1 3/16"	38,00	1,50	4	60	12	180	120,0	4,72	85	0,610	0,41
32,0	1 1/4"	40,00	1,57	4	60	12	180	128,0	5,04	85	0,650	0,44
35,0	1 3/8"	45,00	1,77	4	60	12	180	140,0	5,51	85	0,785	0,53
38,0	1 1/2"	48,00	1,89	4	60	12	180	152,0	5,98	85	0,810	0,55
40,0	1 9/16"	50,00	1,97	3	45	9	135	160,0	6,30	85	0,885	0,60
45,0	1 3/4"	55,00	2,17	3	45	9	135	180,0	7,09	80	1,100	0,74
51,0	2"	61,00	2,40	3	45	9	135	204,0	8,03	80	1,230	0,83
60,0	2 3/8"	72,00	2,83	2	30	6	90	240,0	9,45	80	1,700	1,15
63,0	2 1/2"	75,00	2,95	2	30	6	90	252,0	9,92	80	1,775	1,20
70,0	2 3/4"	84,00	3,31	2	30	6	90	280,0	11,02	80	2,030	1,37
76,0	3"	90,00	3,54	2	30	6	90	304,0	11,97	70	2,350	1,58
80,0	3 1/8"	94,00	3,70	2	30	6	90	320,0	12,60	70	2,500	1,69
90,0	3 1/2"	104,00	4,09	2	30	6	90	360,0	14,17	70	3,000	2,02
102,0	4"	116,00	4,57	2	30	6	90	408,0	16,06	70	3,480	2,34
105,0	4 1/8"	121,00	4,76	3	45	9	135	420,0	16,54	90	4,250	2,86
152,0	6"	172,00	6,77	2	30	6	90	608,0	23,94	70	7,200	4,84

// 204AA



Water S&D 5 bar (75 psi)

Tube: black SBR.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: black SBR - abrasion and ozone resistant.
Application: water suction and 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
152,0	6"	166,00	6,54	5	75	15	225	760,0	29,92	80	6,180	4,16
203,0	8"	221,00	8,70	5	75	15	225	1015,0	39,96	70	10,580	7,12

// 202AA



General purpose S&D 10 bar (150 psi) - 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 fertilizers in general industrial and agricultural applications.
Constant operation: -40 °C +100 °C (-40 °F +212 °F) depending on conveyed chemical

↔		↔		⬇		⬆		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"	36,00	1,42	10	150	30	450	100,0	3,94	100	0,700	0,48
30,0	1 3/16"	41,00	1,61	10	150	30	450	120,0	4,72	100	0,790	0,54
32,0	1 1/4"	43,00	1,69	10	150	30	450	128,0	5,04	100	0,830	0,56
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	0,960	0,65
40,0	1 9/16"	51,00	2,01	10	150	30	450	160,0	6,30	100	1,010	0,68
45,0	1 3/4"	56,00	2,20	10	150	30	450	180,0	7,09	100	1,120	0,76
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,250	0,85
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	1015,0	39,96	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

Dimensions shown may be changed without prior notice

// 223AA

**Water S&D 20 bar (300 psi) - Heavy duty****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. Designed for long service life in heavy duty applications.**Constant operation:** -30 °C +100 °C (-22 °F +212 °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	1,450	0,98
63,0	2 1/2"	77,00	3,03	20	300	60	900	252,0	9,92	90	2,070	1,40
76,0	3"	90,00	3,54	20	300	60	900	304,0	11,97	90	2,540	1,71
102,0	4"	116,00	4,57	20	300	60	900	408,0	16,06	90	3,490	2,35
152,0	6"	168,00	6,61	20	300	60	900	608,0	23,94	80	6,800	4,57
203,0	8"	225,00	8,86	20	300	60	900	812,0	31,97	70	10,920	7,34

// 221AA

**Water-slurry S&D - Corrugated - Soft ends****Tube:** black SBR.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** black SBR - abrasion and ozone resistant.**Application:** water suction and delivery. Special light weight and flexible construction for slurry tankers.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↙		↘		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
76,0	3"			5	75	15	225	152,0	5,98	90	2,230	1,50
102,0	4"			5	75	15	225	204,0	8,03	90	2,940	1,98
120,0	4 3/4"			5	75	15	225	240,0	9,45	90	3,710	2,50
152,0	6"			3	45	9	135	304,0	11,97	80	4,650	3,13
203,0	8"			3	45	9	135	406,0	15,98	70	6,370	4,29

// 222AA



Heavy duty dewatering - EPDM - Corrugated - Soft ends

Tube: black EPDM.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: black EPDM - abrasion and ozone resistant.
Application: heavy duty suction. Specially designed for full vacuum dewatering applications. Also suitable for mild chemicals..
Constant operation: -50 °C +80 °C (-58 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
152,0	6"			10	150	30	450	608,0	23,94	100	6,680	4,49
203,0	8"			10	150	30	450	812,0	31,97	100	8,900	5,99
254,0	10"			10	150	30	450	1016,0	40,00	100	12,600	8,47
300,0	12"			10	150	30	450	1200,0	47,24	100	19,010	12,78

// 268LL



Pools-spa water circulation

Construction: white PVC - abrasion and ozone resistant.
Reinforcement: white shock resistant rigid PVC.
Application: water circulation systems for pools and SPA. Hose outside diameters made to fit rigid PVC pipe fittings.
Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
28,0	1 1/8"	32,00	1,26	6	90	18	270	168,0	6,61	90	0,250	0,17
32,0	1 1/4"	40,00	1,57	6	90	18	270	192,0	7,56	90	0,540	0,37
42,0	1 5/8"	50,00	1,97	6	90	18	270	252,0	9,92	90	0,780	0,53
55,0	2 1/6"	63,00	2,48	5	75	15	225	330,0	12,99	90	0,840	0,57

Dimensions shown may be changed without prior notice

// 248AE

**High pressure water delivery 100 bar (1500 psi)
- Snow maker - Steel braided****Tube:** black SBR.**Reinforcement:** high tensile steel wire braid.**Cover:** blue CSM - abrasion and ozone resistant.**Application:** high pressure water delivery. Specially designed for artificial snow makers. Designed for use of EN 853 1SN fittings.**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"	36,00	1,42	100	1500	200	2900				0,980	0,66
38,0	1 1/2"	50,00	1,97	100	1500	200	2900				1,570	1,06



// AGRICULTURE



591AE	Crop spraying 40 bar (600 psi) - PVC.....	51
593AK	Crop spraying 80 bar (1200 psi) - PVC.....	51
266OA	Air seeder - PVC.....	52
702AA	Air seeder.....	52

Dimensions shown may be changed without prior notice

// 591AE

**Crop spraying 40 bar (600 psi) - PVC****Tube:** black PVC.**Reinforcement:** high tensile textile cords.**Cover:** blue PVC - abrasion and ozone resistant.**Application:** crop spraying of fertilizers, pesticides and weed-killers.**Constant operation:** -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		↷		%	♻	
mm	in	mm	in	bar	psi	bar	psi	mm	in		kg/m	lb/ft
8,0	5/16"	14,00	0,55	50	730	125	1820	64,0	2,52		0,135	0,10
10,0	3/8"	16,00	0,63	50	730	125	1820	80,0	3,15		0,160	0,11
13,0	1/2"	20,00	0,79	40	600	120	1750	104,0	4,09		0,225	0,16
16,0	5/8"	24,00	0,94	40	600	120	1750	128,0	5,04		0,320	0,22
19,0	3/4"	27,00	1,06	40	600	120	1750	152,0	5,98		0,370	0,25
25,0	1"	34,00	1,34	40	600	100	1500	200,0	7,87		0,525	0,36

// 593AK

**Crop spraying 80 bar (1200 psi) - PVC****Tube:** black PVC.**Reinforcement:** high tensile textile cords.**Cover:** yellow ribbed PVC with longitudinal black stripe - abrasion and ozone resistant.**Application:** crop spraying of fertilizers, pesticides and weed-killers.**Constant operation:** -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		↷		%	♻	
mm	in	mm	in	bar	psi	bar	psi	mm	in		kg/m	lb/ft
8,0	5/16"	15,00	0,59	80	1200	200	2900	64,0	2,52		0,160	0,11
10,0	3/8"	18,00	0,71	80	1200	200	2900	80,0	3,15		0,230	0,16
13,0	1/2"	22,00	0,87	80	1200	200	2900	104,0	4,09		0,320	0,22

// 2660A



Air seeder - PVC

Construction: transparent PVC - abrasion and ozone resistant.
Reinforcement: black shock resistant rigid PVC.
Application: agricultural seed transfer in "Air-Flo" seeding equipments.
Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↙		↘		↵		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"			8	120	24	350	113,0	4,45	70	0,295	0,20
32,0	1 1/4"			7	100	21	300	144,0	5,67	70	0,395	0,27
38,0	1 1/2"			6	90	18	270	171,0	6,73	70	0,515	0,35
45,0	1 3/4"			6	90	18	270	203,0	7,99	70	0,675	0,46
51,0	2"			5	75	15	225	230,0	9,06	70	0,765	0,52
63,0	2 1/2"			5	75	15	225	284,0	11,18	70	1,190	0,80
76,0	3"			5	75	15	225	342,0	13,46	70	1,520	1,03

// 702AA



Air seeder

Tube: black conductive NR.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: black NBR/PVC - oil, heat, abrasion and ozone resistant.
Application: agricultural seed transfer in "Air-Flo" seeding equipments.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↙		↘		↵		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
32,0	1 1/4"	43,00	1,69	10	150	30	450	128,0	5,04	100	0,880	0,60
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	1,030	0,70
45,0	1 3/4"	56,00	2,20	10	150	30	450	180,0	7,09	100	1,190	0,80
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,330	0,90
63,0	2 1/2"	76,00	2,99	10	150	30	450	252,0	9,92	90	2,460	1,66
76,0	3"	89,00	3,50	10	150	30	450	304,0	11,97	90	2,730	1,84



// FIRE FIGHTING



283AA	Fire reel 12 bar (180 psi) - EN 694/A2.....	54
251AA	Fire reel 40 bar (600 psi) - Textile braided - NF EN 1947/C/1/II.....	54
212AA	Fire engine water S&D 5 bar (75 psi) - NF EN ISO 14557/A.....	54

// 283AA



**Fire reel 12 bar (180 psi)
EN 694/A2**

Tube: black synthetic elastomer.
Reinforcement: high tensile textile cords.
Cover: black synthetic elastomer - abrasion and ozone resistant.
Application: fire reels.
Constant operation: -20 °C +60 °C (-4 °F +140 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"	34,00	1,34	12	180	48	720	200,0	7,87		0,570	0,39

// 251AA



**Fire reel 40 bar (600 psi) - Textile braided
NF EN 1947/C/1/II**

Tube: black SBR.
Reinforcement: high tensile textile braids.
Cover: black SBR - abrasion and ozone resistant.
Application: hose reels on fire fighting vehicles.
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"	36,00	1,42	40	600	120	1750	100,0	3,94		0,620	0,42

// 212AA



**Fire engine water S&D 5 bar (75 psi)
NF EN ISO 14557/A**

Tube: black SBR.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: black SBR - abrasion and ozone resistant.
Application: water suction and delivery on fire fighting vehicles.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
45,0	1 3/4"	55,00	2,17	5	75	15	225	180,0	7,09	100	1,510	1,02
70,0	2 3/4"	82,00	3,23	5	75	15	225	280,0	11,02	90	2,760	1,86
110,0	4 5/16"	122,00	4,80	5	75	15	225	440,0	17,32	80	4,710	3,17



// FURNACE & CABLE COOLING



254AL	Furnace cooling 10 bar (150 psi) - Soft wall.....	56
203AL	Furnace cooling 10 bar (150 psi) - Hard wall.....	56
957LL	Cable cooling 20 bar (300 psi) - Non conductive.....	57

// 254AL



Furnace cooling 10 bar (150 psi) - Soft wall

Tube: black SBR.
Reinforcement: high tensile textile cords.
Cover: black SBR - resin coated dust free fibreglass cover.
Application: general purpose water delivery in furnace cooling applications. Specially designed to withstand heat, splashes of molten metal and open flame.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)
 cover resistant up to 540 °C (1000 °F)

↔		↔		↻		↻		⤴		⌋	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	31,00	1,22	10	150	30	450				0,710	0,48
25,0	1"	37,00	1,46	10	150	30	450				0,890	0,60
32,0	1 1/4"	46,00	1,81	10	150	30	450				1,290	0,87
38,0	1 1/2"	52,00	2,05	10	150	30	450				1,500	1,01
51,0	2"	65,00	2,56	10	150	30	450				1,950	1,32

// 203AL



Furnace cooling 10 bar (150 psi) - Hard wall

Tube: black SBR.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: black SBR - resin coated dust free fibreglass cover.
Application: general purpose water suction and delivery in furnace cooling applications. Specially designed to withstand heat, splashes of molten metal and open flame.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)
 cover resistant up to 540 °C (1000 °F)

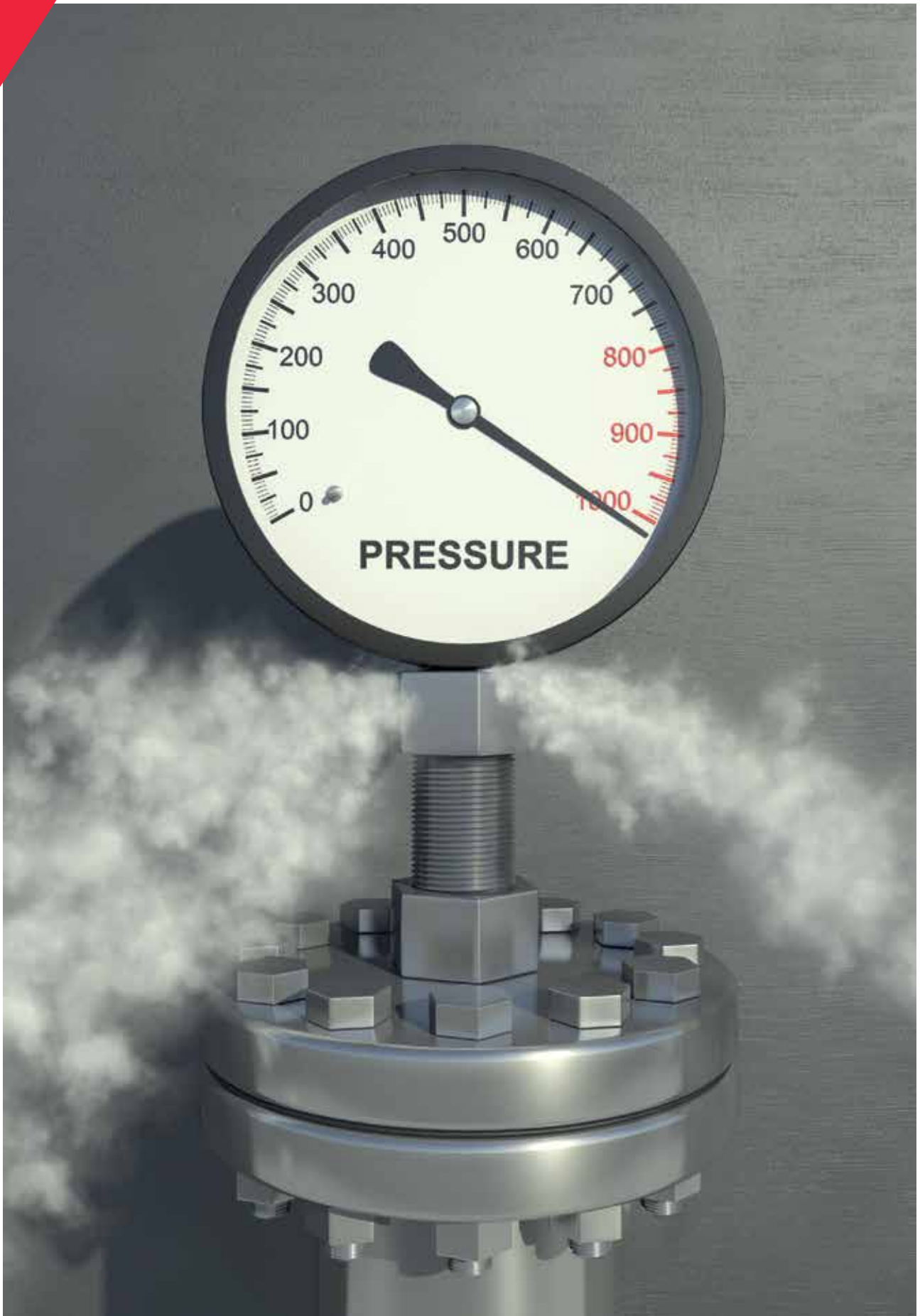
↔		↔		↻		↻		⤴		⌋	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"	63,00	2,48	10	150	30	450	255,0	10,04	100	1,810	1,22
60,0	2 3/8"	72,00	2,83	10	150	30	450	300,0	11,81	100	2,260	1,52
63,0	2 1/2"	75,00	2,95	10	150	30	450	315,0	12,40	90	2,360	1,59
76,0	3"	88,00	3,46	10	150	30	450	380,0	14,96	90	2,800	1,89
80,0	3 1/8"	92,00	3,62	10	150	30	450	400,0	15,75	90	2,940	1,98
90,0	3 1/2"	102,00	4,02	10	150	30	450	450,0	17,72	90	3,780	2,55
102,0	4"	114,00	4,49	10	150	30	450	510,0	20,08	90	4,240	2,85

Dimensions shown may be changed without prior notice

// 957LL

**Cable cooling 20 bar (300 psi) - Non conductive****Tube:** white EPDM.**Reinforcement:** high tensile textile cords.**Cover:** white non conductive EPDM, heat resistant - resin coated dust free fibreglass cover.**Application:** non conductive cable cooling in electric furnaces. Specially designed to withstand heat, splashes of molten metal and open flame.**Constant operation:** -40 °C +120 °C (-40 °F +248 °F) cover resistant up to 540 °C (1000 °F)

↔		↔		↻		↻		⤴		⚖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	25,00	0,98	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				0,850	0,58
32,0	1 1/4"	46,00	1,81	20	300	60	900				1,250	0,85
38,0	1 1/2"	54,00	2,13	20	300	60	900				1,440	0,97
51,0	2"	67,00	2,64	20	300	60	900				1,900	1,28
63,0	2 1/2"	81,00	3,19	20	300	60	900				2,630	1,77
76,0	3"	96,00	3,78	20	300	60	900				3,570	2,40



// HOT WATER & STEAM



375AA	Hot water-car heater 10 bar (150 psi).....	60
352AA	Radiator 5 bar (75 psi) - exceeds DIN 73411 - SAE 20R1 D-2.....	60
395BT	Hot water wash down 50 bar (750 psi) - EU 10/2011 A+B+C.....	61
351LL	Hot water wash down 10 bar (150 psi) - Built in nozzle.....	61
351LG	Hot water wash down 10 bar (150 psi) - Built in nozzle.....	61
350LL	Steam 6 bar (90 psi) - Hot water 15 bar (225 psi) - FDA - arrêté du 09/11/94 D.....	62
350LE	Steam 6 bar (90 psi) - Hot water 15 bar (225 psi) - FDA - arrêté du 09/11/94 D.....	62
350AA	Steam 6 bar (90 psi) - Hot water 15 bar (225 psi).....	63
354AA	Steam 6 bar (90 psi) - EN ISO 6134/1A.....	63
340AA	Steam 18 bar (270 psi) - Steel braided.....	64
340AH	Steam 18 bar (270 psi) - Steel braided.....	64
344AH	Steam 18 bar (270 psi) - Steel braided - EN ISO 6134/2A.....	65
343AH	Steam 18 bar (270 psi) - Oil resistant - Steel braided - EN ISO 6134/2B.....	65
341AA	Steam 18 bar (270 psi) - CIIR - Steel braided.....	66
341AH	Steam 18 bar (270 psi) - CIIR - Steel braided.....	66
345AA	Steam 18 bar (270 psi) - CIIR - Steel braided - EN ISO 6134/2A.....	66

// 375AA



Hot water-car heater 10 bar (150 psi)

Tube: black EPDM.

Reinforcement: high tensile textile cords.

Cover: black EPDM - heat, abrasion and ozone resistant.

Application: general purpose-hot water. Specially designed for automotive heating systems.

Constant operation: -35 °C +100 °C (-31 °F +212 °F)

↔		↔		↻		↻		⌒		⚖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	19,00	0,75	10	150	30	450	130,0	5,12		0,235	0,16
16,0	5/8"	22,00	0,87	10	150	30	450	160,0	6,30		0,280	0,19
19,0	3/4"	27,00	1,06	10	150	30	450	190,0	7,48		0,445	0,30
25,0	1"	33,00	1,30	10	150	30	450	250,0	9,84		0,570	0,39

// 352AA



**Radiator 5 bar (75 psi)
exceeds DIN 73411 - SAE 20R1 D-2**

Tube: black EPDM.

Reinforcement: high tensile textile cords.

Cover: black EPDM - heat, abrasion and ozone resistant.

Application: radiator.

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

↔		↔		↻		↻		⌒		⚖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	21,00	0,83	5	75	15	225				0,280	0,19
16,0	5/8"	24,00	0,94	5	75	15	225				0,330	0,23
18,0	23/32"	26,00	1,02	5	75	15	225				0,380	0,26
20,0	13/16"	28,00	1,10	5	75	15	225				0,390	0,27
22,0	7/8"	30,00	1,18	5	75	15	225				0,420	0,29
25,0	1"	33,00	1,30	5	75	15	225				0,470	0,32
28,0	1 1/8"	36,00	1,42	5	75	15	225				0,510	0,35
30,0	1 3/16"	38,00	1,50	5	75	15	225				0,550	0,37
32,0	1 1/4"	40,00	1,57	5	75	15	225				0,580	0,39
35,0	1 3/8"	43,00	1,69	5	75	15	225				0,620	0,42
38,0	1 1/2"	48,00	1,89	5	75	15	225				0,860	0,58
40,0	1 9/16"	50,00	1,97	5	75	15	225				0,890	0,60
42,0	1 5/8"	52,00	2,05	5	75	15	225				0,930	0,63
45,0	1 3/4"	55,00	2,17	5	75	15	225				0,990	0,67
48,0	1 7/8"	58,00	2,28	5	75	15	225				1,050	0,71
51,0	2"	61,00	2,40	5	75	15	225				1,120	0,76
55,0	2 1/6"	65,00	2,56	5	75	15	225				1,190	0,80
57,0	2 1/4"	67,00	2,64	5	75	15	225				1,230	0,83
60,0	2 3/8"	70,00	2,76	5	75	15	225				1,290	0,87
63,0	2 1/2"	73,00	2,87	5	75	15	225				1,350	0,91
70,0	2 3/4"	80,00	3,15	5	75	15	225				1,450	0,98
76,0	3"	86,00	3,39	5	75	15	225				1,560	1,05
80,0	3 1/8"	90,00	3,54	5	75	15	225				1,640	1,11
90,0	3 1/2"	102,00	4,02	5	75	15	225				2,030	1,37
102,0	4"	114,00	4,49	5	75	15	225				2,270	1,53
110,0	4 5/16"	122,00	4,80	5	75	15	225				2,430	1,64
115,0	4 1/2"	127,00	5,00	5	75	15	225				2,530	1,71
127,0	5"	141,00	5,55	5	75	15	225				3,230	2,18

Dimensions shown may be changed without prior notice

// 395BT



**Hot water wash down 50 bar (750 psi)
EU 10/2011 A+B+C**

Tube: grey non-toxic PVC.
Reinforcement: high tensile textile cords.
Cover: light blue synthetic elastomer - abrasion, ozone, animal fats and vegetable oils resistant.
Application: hot water wash down. Specially designed for the food and dairy industry. Designed for 50 bar at 70° C continuous use. Food grade.
Constant operation: -10 °C +70 °C (+14 °F +158 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
12,0	15/32"	22,00	0,87	50	730	150	2250	84,0	3,31		0,340	0,23

// 351LL



Hot water wash down 10 bar (150 psi) - Built in nozzle

Tube: white EPDM.
Reinforcement: high tensile textile cords.
Cover: white EPDM - heat, abrasion and ozone resistant.
Application: hot and cold water wash down in paper mills and the food industry where a built in rubber nozzle is required to avoid floor and equipment damage.
Constant operation: -40 °C +120 °C (-40 °F +248 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	31,00	1,22	10	150	40	600				0,630	0,43
25,0	1"	37,00	1,46	10	150	40	600				0,780	0,53
32,0	1 1/4"	46,00	1,81	10	150	40	600				1,140	0,77
38,0	1 1/2"	52,00	2,05	10	150	40	600				1,340	0,91

// 351LG



Hot water wash down 10 bar (150 psi) - Built in nozzle

Tube: white EPDM.
Reinforcement: high tensile textile cords.
Cover: green EPDM - heat, abrasion and ozone resistant.
Application: hot and cold water wash down in paper mills and the food industry where a built in rubber nozzle is required to avoid floor and equipment damage.
Constant operation: -40 °C +120 °C (-40 °F +248 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	31,00	1,22	10	150	40	600				0,600	0,41
25,0	1"	37,00	1,46	10	150	40	600				0,740	0,50
32,0	1 1/4"	46,00	1,81	10	150	40	600				1,100	0,74
38,0	1 1/2"	52,00	2,05	10	150	40	600				1,290	0,87

// 350LL



**Steam 6 bar (90 psi) - Hot water 15 bar (225 psi)
FDA - arrêté du 09/11/94 D**

Tube: white EPDM.

Reinforcement: high tensile textile cords.

Cover: white EPDM - heat, abrasion and ozone resistant.

Application: saturated steam and hot water delivery in general industrial applications. Specially designed for wash down use in the food and dairy industry.

Also suitable for liquid food and alcoholic beverages.

Constant operation: water -40 °C +120 °C (-40 °F +248 °F)
steam +165 °C (+330 °F)

↔		↔		↻		↻		⌒		%		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
13,0	1/2"	23,00	0,91	6	90	60	900				0,380	0,26	
16,0	5/8"	26,00	1,02	6	90	60	900				0,450	0,31	
19,0	3/4"	31,00	1,22	6	90	60	900				0,640	0,44	
25,0	1"	37,00	1,46	6	90	60	900				0,790	0,54	

// 350LE



**Steam 6 bar (90 psi) - Hot water 15 bar (225 psi)
FDA - arrêté du 09/11/94 D**

Tube: white food grade EPDM.

Reinforcement: high tensile textile cords.

Cover: blue EPDM - heat, abrasion and ozone resistant.

Application: saturated steam and hot water delivery in general industrial applications. Specially designed for wash down use in the food and dairy industry.

Also suitable for liquid food and alcoholic beverages.

Constant operation: water -40 °C +120 °C (-40 °F +248 °F)
steam +165 °C (+330 °F)

↔		↔		↻		↻		⌒		%		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
13,0	1/2"	23,00	0,91	6	90	60	900				0,360	0,25	
16,0	5/8"	26,00	1,02	6	90	60	900				0,420	0,29	
19,0	3/4"	31,00	1,22	6	90	60	900				0,590	0,40	
25,0	1"	37,00	1,46	6	90	60	900				0,740	0,50	
32,0	1 1/4"	46,00	1,81	6	90	60	900				0,930	0,63	
38,0	1 1/2"	52,00	2,05	6	90	60	900				1,090	0,74	
51,0	2"	67,00	2,64	6	90	60	900				1,660	1,12	

Dimensions shown may be changed without prior notice

// 350AA

**Steam 6 bar (90 psi) - Hot water 15 bar (225 psi)****Tube:** black conductive EPDM.**Reinforcement:** high tensile textile cords.**Cover:** black conductive EPDM - heat, abrasion and ozone resistant.**Application:** saturated steam and hot water delivery in general industrial applications.**Constant operation:** water -40 °C +120 °C (-40 °F +248 °F)
steam +165 °C (+330 °F)

↔		↔		↻		↻		↷		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	23,00	0,91	6	90	60	900				0,370	0,25
16,0	5/8"	26,00	1,02	6	90	60	900				0,430	0,29
19,0	3/4"	29,00	1,14	6	90	60	900				0,470	0,32
25,0	1"	35,00	1,38	6	90	60	900				0,590	0,40
30,0	1 3/16"	44,00	1,73	6	90	60	900				0,910	0,62
32,0	1 1/4"	46,00	1,81	6	90	60	900				0,950	0,64
38,0	1 1/2"	52,00	2,05	6	90	60	900				1,110	0,75
40,0	1 9/16"	54,00	2,13	6	90	60	900				1,160	0,78
51,0	2"	67,00	2,64	6	90	60	900				1,710	1,15

// 354AA

**Steam 6 bar (90 psi)
EN ISO 6134/1A****Tube:** black conductive EPDM.**Reinforcement:** high tensile textile cords.**Cover:** black conductive EPDM - heat, abrasion and ozone resistant.**Application:** saturated steam.**Constant operation:** -40 °C +165 °C (-40 °F +330 °F)

↔		↔		↻		↻		↷		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	25,00	0,98	6	90	60	900	130,0	5,12		0,430	0,29
19,0	3/4"	33,00	1,30	6	90	60	900	190,0	7,48		0,690	0,47
25,0	1"	40,00	1,57	6	90	60	900	250,0	9,84		0,910	0,62

// 340AA



Steam 18 bar (270 psi) - Steel braided

Tube: black conductive EPDM.
Reinforcement: one or two high tensile steel wire braids.
Cover: black conductive EPDM - heat, abrasion and ozone resistant - pin pricked.
Application: saturated and superheated steam.
Constant operation: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

↔		↔		↻		↻		⤴		⤵		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	23,00	0,91	18	270	180	2610	130,0	5,12		0,400	0,27
19,0	3/4"	31,00	1,22	18	270	180	2610	190,0	7,48		0,730	0,50
25,0	1"	38,00	1,50	18	270	180	2610	250,0	9,84		0,890	0,60

// 340AH



Steam 18 bar (270 psi) - Steel braided

Tube: black conductive EPDM.
Reinforcement: one or two high tensile steel wire braids.
Cover: red EPDM - heat, abrasion and ozone resistant - pin pricked.
Application: saturated and superheated steam.
Constant operation: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

↔		↔		↻		↻		⤴		⤵		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	23,00	0,91	18	270	180	2610	130,0	5,12		0,400	0,27
16,0	5/8"	26,00	1,02	18	270	180	2610	160,0	6,30		0,480	0,33
19,0	3/4"	31,00	1,22	18	270	180	2610	190,0	7,48		0,740	0,50
25,0	1"	38,00	1,50	18	270	180	2610	250,0	9,84		0,900	0,61
32,0	1 1/4"	46,00	1,81	18	270	180	2610	320,0	12,60		1,190	0,80
38,0	1 1/2"	52,00	2,05	18	270	180	2610	380,0	14,96		1,340	0,91
51,0	2"	67,00	2,64	18	270	180	2610	510,0	20,08		2,130	1,44
63,0	2 1/2"	81,00	3,19	18	270	180	2610	630,0	24,80		2,990	2,01
76,0	3"	94,00	3,70	18	270	180	2610	760,0	29,92		3,970	2,67

Dimensions shown may be changed without prior notice

// 344AH

EXTRUDED
TUBE**Steam 18 bar (270 psi) - Steel braided
EN ISO 6134/2A****Tube:** black conductive EPDM.**Reinforcement:** one or two high tensile steel wire braids.**Cover:** red EPDM - heat, abrasion and ozone resistant - pin pricked.**Application:** saturated and superheated steam.**Constant operation:** -40 °C +210 °C (-40 °F +410 °F)
intermittent to 232 °C (450 °F)

↔		↔		↙		↘		↗		↖		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
13,0	1/2"	25,00	0,98	18	270	180	2610	130,0	5,12		0,490	0,33	
19,0	3/4"	33,00	1,30	18	270	180	2610	190,0	7,48		0,850	0,58	
25,0	1"	40,00	1,57	18	270	180	2610	250,0	9,84		1,040	0,70	

// 343AH

EXTRUDED
TUBE**Steam 18 bar (270 psi) - Oil resistant - Steel
braided
EN ISO 6134/2B****Tube:** black conductive EPDM.**Reinforcement:** high tensile steel wire braids.**Cover:** red special rubber compound - heat, abrasion, ozone and hydrocarbon resistant - pin pricked.**Application:** saturated and superheated steam in applications where an oil resistant cover is required.

Black version available upon request with minimum order quantities.

Constant operation: -40 °C +210 °C (-40 °F +410 °F)
intermittent to 232 °C (450 °F)

↔		↔		↙		↘		↗		↖		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
19,0	3/4"	33,00	1,30	18	270	180	2610	190,0	7,48		0,910	0,62	
25,0	1"	40,00	1,57	18	270	180	2610	250,0	9,84		1,110	0,75	

// 341AA



Steam 18 bar (270 psi) - CIIR - Steel braided

Tube: black conductive chlorobutyl blend.
Reinforcement: one or two high tensile steel wire braids.
Cover: black conductive EPDM - heat, abrasion and ozone resistant - pin pricked.
Application: saturated and superheated steam.
Constant operation: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

↔		↔		↙		↘		↗		↖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	23,00	0,91	18	270	180	2610	130,0	5,12		0,400	0,27
19,0	3/4"	31,00	1,22	18	270	180	2610	190,0	7,48		0,710	0,48
25,0	1"	38,00	1,50	18	270	180	2610	250,0	9,84		0,870	0,59
32,0	1 1/4"	46,00	1,81	18	270	180	2610	320,0	12,60		1,180	0,80
38,0	1 1/2"	52,00	2,05	18	270	180	2610	380,0	14,96		1,330	0,90
51,0	2"	67,00	2,64	18	270	180	2610	510,0	20,08		2,110	1,42

// 341AH



Steam 18 bar (270 psi) - CIIR - Steel braided

Tube: black conductive chlorobutyl blend.
Reinforcement: one or two high tensile steel wire braids.
Cover: red EPDM - heat, abrasion and ozone resistant - pin pricked.
Application: saturated and superheated steam.
Constant operation: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

↔		↔		↙		↘		↗		↖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	23,00	0,91	18	270	180	2610	130,0	5,12		0,400	0,27
19,0	3/4"	31,00	1,22	18	270	180	2610	190,0	7,48		0,720	0,49
25,0	1"	38,00	1,50	18	270	180	2610	250,0	9,84		0,880	0,60
32,0	1 1/4"	46,00	1,81	18	270	180	2610	320,0	12,60		1,170	0,79
38,0	1 1/2"	52,00	2,05	18	270	180	2610	380,0	14,96		1,330	0,90
51,0	2"	67,00	2,64	18	270	180	2610	510,0	20,08		2,040	1,38

// 345AA



Steam 18 bar (270 psi) - CIIR - Steel braided EN ISO 6134/2A

Tube: black conductive chlorobutyl blend.
Reinforcement: high tensile steel wire braids.
Cover: black EPDM - heat, abrasion and ozone resistant - pin pricked.
Application: saturated and superheated steam.
Constant operation: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

↔		↔		↙		↘		↗		↖	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	33,00	1,30	18	270	180	2610	190,0	7,48		0,840	0,57
25,0	1"	40,00	1,57	18	270	180	2610	250,0	9,84		1,030	0,70
51,0	2"	69,00	2,72	18	270	180	2610	510,0	20,08		2,300	1,55

// STEAM HOSE SAFETY GUIDE

Handling steam is a very hazardous situation. Using care and some safety precaution can minimise or eliminate personal or property damage.

(Reprinted from RMA IP-11-1 Steam Hose)

SELECTING AND USING STEAM HOSE

1. Make sure steam hose is identified as a steam hose. It should be branded as such, stating working pressure and temperature rating
2. Make sure working pressure and temperature is not exceeded
3. Do not allow hose to remain under pressure when not in use
4. Avoid excess bending or flexing of hose near the coupling. Straight line operation is preferred. If bends are necessary as part of operation, spring guards may help
5. Be sure and use recommended steam hose couplings and clamps on hose.

MAINTENANCE OF STEAM HOSE

1. Periodic inspection of hose should include looking for cover blisters and lumps
2. Check for kinked areas that could damage hose
3. Drain hose after each use to avoid tube damage before hose is put back in operation, to avoid "popcorning" of the tube
4. Check tightness of clamps bolts after each use
5. Check to see if clamps halves are touching. If they are, recouple hose with smaller clamps to insure proper tightness or grip around hose
6. Do not store hose over hooks
7. Steam hose lying on metal racks or installed around steel piping will dry out the hose, causing tube and cover cracking.

CORROSIVE STEAM

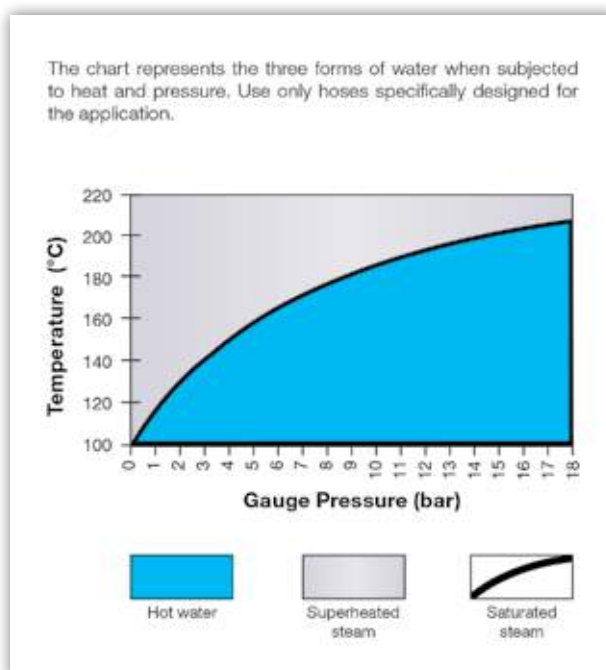
When the water used to generate steam contains dissolved air, oxygen or carbon dioxide, then these gases end up as contaminants in the steam. At high temperatures of steam both oxygen and carbon dioxide are extremely corrosive. Carbon dioxide is acidic and therefore attacks metals whereas the oxygen corrodes metals and oxidises rubbers. Corrosion of metals in the presence of both oxygen and acids is forty times faster than with either alone. Boiler water is therefore normally treated not only to remove the "hardness" which would cause "furring" of the boiler but also to remove dissolved oxygen and carbon dioxide and to ensure that the steam is not only not acidic but even slightly alkaline. Boiler water treatment is a specialised subject beyond the scope of this technical sheet but correct steam generation is important.

DETERIORATION OF STEAM HOSE

Like all rubber products steam hoses have a finite life and are subject to gradual deterioration with use. However, it sometimes happens that hoses which have been giving a good life suddenly start failing without apparent reason. In such cases it is often a change in the steam conditions causing a rapid acceleration of a normal failure mode. It is therefore useful to consider how steam hoses normally last and thus how the condition of the steam affects hose life.

TEMPERATURE OF SATURATED STEAM

Gauge Pressure		Temperature	
psi	bar	° C	° F
25	1.73	130	267
30	2.07	134	274
35	2.42	138	281
40	2.76	141	287
45	3.11	144	292
50	3.45	148	298
60	4.14	153	307
70	4.83	158	316
80	5.52	162	324
90	6.21	166	330
100	6.90	170	338
120	8.28	177	350
140	9.66	182	361
160	11.04	188	371
180	12.42	193	379
200	13.80	198	388
225	15.53	203	397
250	17.25	208	406
275	18.98	212	414
300	20.70	216	422
325	22.43	221	429
350	24.15	225	437





// LIQUID FOOD



4920O	General purpose food quality - PVC - FDA - EU 10/2011 A+B+C - AS 2070.....	70
466OL	General purpose S&D - PVC - Standard duty - FDA - EU 10/2011 A+B+C - AS 2070.....	70
468OH	Liquid food S&D - PVC - Heavy duty - FDA - EU 10/2011 A+B+C - AS 2070.....	71
4720O	General purpose food quality S&D - PVC - FDA - EU 10/2011 A+B+C - AS 2070.....	71
452LH	Liquid food delivery 10 bar (150 psi) - FDA arrêté du 09/11/94 D.....	72
402LH	Liquid food S&D 10 bar (150 psi) - FDA arrêté du 09/11/94 D.....	72
410LL	Alcoholic beverages S&D 16 bar (240 psi) - Crush resistant - FDA arrêté du 09/11/94 D.....	73
412LE	Milk tanker 10 bar (150 psi) - Hard wall - FDA arrêté du 09/11/94 D.....	74
418LE	Milk tanker 10 bar (150 psi) - Hard wall - Crush resistant - FDA arrêté du 09/11/94 D.....	74
455LE	Fat food delivery 10 bar (150 psi) - FDA - D.M. 21/03/73.....	75
455LL	Fat food delivery 10 bar (150 psi) - FDA - D.M. 21/03/73.....	75
405LE	Fat food S&D 10 bar (150 psi) - FDA - D.M. 21/03/73.....	76
405LL	Fat food S&D 10 bar (150 psi) - FDA - D.M. 21/03/73.....	76
405LH	Fat food S&D 10 bar (150 psi) - FDA - D.M. 21/03/73.....	77
417LE	Fat food S&D 16 bar (240 psi) - Crush resistant - FDA - D.M. 21/03/73.....	77

// 49200



General purpose food quality - PVC
FDA - EU 10/2011 A+B+C - AS 2070

Tube: transparent PVC.

Reinforcement: high tensile textile cords.

Cover: transparent PVC with longitudinal red stripes - abrasion and ozone resistant.

Application: general purpose food quality. Sterilize with 5% soda solution.

Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↙		↘		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	11,00	0,43	20	300	60	900				0,085	0,06
6,0	1/4"	12,00	0,47	20	300	60	900				0,110	0,08
8,0	5/16"	13,00	0,51	15	225	45	650				0,105	0,08
8,0	5/16"	14,00	0,55	15	225	45	650				0,130	0,09
10,0	3/8"	15,00	0,59	15	225	45	650				0,125	0,09
10,0	3/8"	16,00	0,63	15	225	45	650				0,155	0,11
13,0	1/2"	19,00	0,75	10	150	30	450				0,190	0,13
16,0	5/8"	22,00	0,87	10	150	30	450				0,225	0,16
19,0	3/4"	25,00	0,98	10	150	30	450				0,260	0,18
19,0	3/4"	26,00	1,02	10	150	30	450				0,310	0,21
25,0	1"	32,00	1,26	10	150	30	450				0,390	0,27
25,0	1"	33,00	1,30	10	150	30	450				0,450	0,31
30,0	1 3/16"	38,00	1,50	7	100	21	300				0,530	0,36
32,0	1 1/4"	42,00	1,65	7	100	21	300				0,715	0,49
38,0	1 1/2"	48,00	1,89	7	100	21	300				0,830	0,56
51,0	2"	63,00	2,48	6	90	18	270				1,320	0,89

// 4660L



General purpose S&D - PVC - Standard duty
FDA - EU 10/2011 A+B+C - AS 2070

Construction: transparent PVC - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

Application: general purpose liquid food and alcoholic beverages suction and delivery - max 20% - Sterilize with 5% soda solution.

Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↙		↘		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
20,0	13/16"			8	120	24	350	90,0	3,54	70	0,230	0,16
25,0	1"			8	120	24	350	113,0	4,45	70	0,290	0,20
30,0	1 3/16"			7	100	21	300	135,0	5,31	70	0,360	0,25
32,0	1 1/4"			7	100	21	300	144,0	5,67	70	0,390	0,27
35,0	1 3/8"			7	100	21	300	158,0	6,22	70	0,440	0,30
38,0	1 1/2"			6	90	18	270	171,0	6,73	70	0,510	0,35
40,0	1 9/16"			6	90	18	270	180,0	7,09	70	0,540	0,37
45,0	1 3/4"			6	90	18	270	203,0	7,99	70	0,670	0,46
51,0	2"			5	75	15	225	230,0	9,06	70	0,760	0,52
55,0	2 1/6"			5	75	15	225	247,0	9,72	70	0,810	0,55
60,0	2 3/8"			5	75	15	225	270,0	10,63	70	0,920	0,62
63,0	2 1/2"			5	75	15	225	284,0	11,18	70	0,970	0,66
70,0	2 3/4"			5	75	15	225	315,0	12,40	70	1,160	0,78
76,0	3"			5	75	15	225	342,0	13,46	70	1,330	0,90
80,0	3 1/8"			4	60	12	180	360,0	14,17	70	1,450	0,98
90,0	3 1/2"			4	60	12	180	405,0	15,94	70	1,800	1,21
102,0	4"			4	60	12	180	459,0	18,07	70	2,190	1,48
120,0	4 3/4"			3	45	9	135	540,0	21,26	50	2,700	1,82

Dimensions shown may be changed without prior notice

// 4680H

**Liquid food S&D - PVC - Heavy duty
FDA - EU 10/2011 A+B+C - AS 2070****Construction:** transparent PVC - abrasion and ozone resistant.**Reinforcement:** red shock resistant rigid PVC.**Application:** liquid food and alcoholic beverages suction and delivery - max 20%. Sterilize with 5% soda solution.**Constant operation:** -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"			7	100	21	300	125,0	4,92	90	0,405	0,28
32,0	1 1/4"			7	100	21	300	160,0	6,30	90	0,530	0,36
38,0	1 1/2"			7	100	21	300	190,0	7,48	90	0,745	0,51
40,0	1 9/16"			7	100	21	300	200,0	7,87	90	0,765	0,52
51,0	2"			7	100	21	300	255,0	10,04	90	1,015	0,69
60,0	2 3/8"			7	100	21	300	300,0	11,81	90	1,475	1,00
63,0	2 1/2"			6	90	18	270	315,0	12,40	90	1,525	1,03
76,0	3"			5	75	15	225	380,0	14,96	90	1,930	1,30
80,0	3 1/8"			5	75	15	225	400,0	15,75	90	2,135	1,44
102,0	4"			4	60	12	180	510,0	20,08	90	3,355	2,26
120,0	4 3/4"			3	45	9	135	600,0	23,62	80	3,645	2,45

// 47200

**General purpose food quality S&D - PVC
FDA - EU 10/2011 A+B+C - AS 2070****Construction:** transparent PVC - abrasion and ozone resistant.**Reinforcement:** Steel helix wire.**Application:** general purpose liquid food and alcoholic beverages suction and delivery - max 20% - Sterilize with 5% soda solution.**Constant operation:** -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
10,0	3/8"	16,00	0,63	15	225	45	650	40,0	1,57	90	0,160	0,11
13,0	1/2"	19,00	0,75	7	100	21	300	52,0	2,05	85	0,195	0,14
14,0	9/16"	20,00	0,79	6	90	18	270	56,0	2,20	85	0,210	0,15
16,0	5/8"	22,00	0,87	6	90	18	270	64,0	2,52	85	0,250	0,17
18,0	23/32"	26,00	1,02	6	90	18	270	72,0	2,83	85	0,300	0,21
20,0	13/16"	28,00	1,10	5	75	15	225	80,0	3,15	85	0,330	0,23
22,0	7/8"	30,00	1,18	5	75	15	225	88,0	3,46	85	0,380	0,26
25,0	1"	33,00	1,30	5	75	15	225	100,0	3,94	85	0,515	0,35
30,0	1 3/16"	38,00	1,50	4	60	12	180	120,0	4,72	85	0,610	0,41
32,0	1 1/4"	40,00	1,57	4	60	12	180	128,0	5,04	85	0,650	0,44
35,0	1 3/8"	45,00	1,77	4	60	12	180	140,0	5,51	85	0,785	0,53
38,0	1 1/2"	48,00	1,89	4	60	12	180	152,0	5,98	85	0,810	0,55
40,0	1 9/16"	50,00	1,97	3	45	9	135	160,0	6,30	85	0,885	0,60
45,0	1 3/4"	55,00	2,17	3	45	9	135	180,0	7,09	80	1,100	0,74
51,0	2"	61,00	2,40	3	45	9	135	204,0	8,03	80	1,230	0,83
60,0	2 3/8"	72,00	2,83	2	30	6	90	240,0	9,45	80	1,700	1,15
63,0	2 1/2"	75,00	2,95	2	30	6	90	252,0	9,92	80	1,775	1,20
70,0	2 3/4"	84,00	3,31	2	30	6	90	280,0	11,02	80	2,030	1,37
76,0	3"	90,00	3,54	2	30	6	90	304,0	11,97	70	2,350	1,58
80,0	3 1/8"	94,00	3,70	2	30	6	90	320,0	12,60	70	2,500	1,69
90,0	3 1/2"	104,00	4,09	2	30	6	90	360,0	14,17	70	3,000	2,02
102,0	4"	116,00	4,57	2	30	6	90	408,0	16,06	70	3,480	2,34
105,0	4 1/8"	121,00	4,76	3	45	9	135	420,0	16,54	90	4,250	2,86
152,0	6"	172,00	6,77	2	30	6	90	608,0	23,94	70	7,200	4,84

// 452LH



**Liquid food delivery 10 bar (150 psi)
FDA arrêté du 09/11/94 D**

Tube: white NR.
Reinforcement: high tensile textile cords.
Cover: red NBR/PVC - abrasion and ozone resistant.
Application: liquid food and alcoholic beverages delivery - max 50%. Sterilize with 110 °C (230 °F) steam for 10 minutes or with 5% soda solution.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⤵		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	23,00	0,91	10	150	30	450				0,380	0,26
19,0	3/4"	31,00	1,22	10	150	30	450				0,610	0,41
25,0	1"	37,00	1,46	10	150	30	450				0,760	0,52
32,0	1 1/4"	44,00	1,73	10	150	30	450				0,930	0,63
38,0	1 1/2"	50,00	1,97	10	150	30	450				1,080	0,73
51,0	2"	65,00	2,56	10	150	30	450				1,690	1,14
63,0	2 1/2"	77,00	3,03	10	150	30	450				2,030	1,37
76,0	3"	92,00	3,62	10	150	30	450				2,810	1,89

// 402LH



**Liquid food S&D 10 bar (150 psi)
FDA arrêté du 09/11/94 D**

Tube: white NR.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: red NBR/PVC - abrasion and ozone resistant.
Application: liquid food and alcoholic beverages suction and delivery - max 50%. Special construction for maximum flexibility. Sterilize with 110 °C (230 °F) steam for 10 minutes or with 5% soda solution.
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"	37,00	1,46	10	150	30	450	75,0	2,95	100	0,910	0,62
38,0	1 1/2"	50,00	1,97	10	150	30	450	114,0	4,49	100	1,260	0,85
51,0	2"	63,00	2,48	10	150	30	450	153,0	6,02	100	1,620	1,09
76,0	3"	88,00	3,46	10	150	30	450	228,0	8,98	90	2,550	1,72
102,0	4"	116,00	4,57	10	150	30	450	306,0	12,05	90	3,540	2,38

Dimensions shown may be changed without prior notice

// 410LL



**Alcoholic beverages S&D 16 bar (240 psi) -
Crush resistant
FDA arrêté du 09/11/94 D**

Tube: white chlorobutyl.

Reinforcement: high tensile textile cords with embedded PET helix.

Cover: white EPDM - abrasion and ozone resistant.

Application: liquid food and alcoholic beverages suction and delivery - max 95%. Special crush resistant construction.

Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.

Constant operation: -30 °C +108 °C (-22 °F +226 °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	100,0	3,94	100	0,870	0,59
38,0	1 1/2"	52,00	2,05	16	240	48	720	152,0	5,98	100	1,470	0,99
51,0	2"	65,00	2,56	16	240	48	720	204,0	8,03	100	1,900	1,28
76,0	3"	92,00	3,62	16	240	48	720	304,0	11,97	100	3,210	2,16

// 412LE



**Milk tanker 10 bar (150 psi) - Hard wall
FDA arrêté du 09/11/94 D**

Tube: white NR.

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

Cover: blue NR/EPDM - abrasion and ozone resistant.

Application: liquid food suction and delivery. Special construction for maximum flexibility in milk tanker applications. Sterilize with 110 °C (230 °F) steam for 10 minutes or with 5% soda solution.

Constant operation: -40 °C +80 °C (-40 °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	50,0	1,97	100	0,660	0,45	
32,0	1 1/4"	42,00	1,65	10	150	30	450	64,0	2,52	100	0,810	0,55	
38,0	1 1/2"	48,00	1,89	10	150	30	450	76,0	2,99	100	0,940	0,64	
40,0	1 9/16"	50,00	1,97	10	150	30	450	80,0	3,15	100	0,980	0,66	
42,0	1 5/8"	52,00	2,05	10	150	30	450	84,0	3,31	100	1,030	0,70	
51,0	2"	61,00	2,40	10	150	30	450	102,0	4,02	100	1,220	0,82	
63,0	2 1/2"	75,00	2,95	10	150	30	450	126,0	4,96	100	1,860	1,26	
76,0	3"	88,00	3,46	10	150	30	450	228,0	8,98	90	2,420	1,63	
102,0	4"	116,00	4,57	10	150	30	450	306,0	12,05	90	3,630	2,44	

// 418LE



**Milk tanker 10 bar (150 psi) - Hard wall - Crush resistant
FDA arrêté du 09/11/94 D**

Tube: white NR.

Reinforcement: high tensile textile cords with embedded PET helix.

Cover: blue NR/EPDM - abrasion and ozone resistant.

Application: liquid food suction and delivery. Special lightweight construction for maximum flexibility and crush resistance in milk tanker applications. Sterilize with 110 °C (230 °F) steam for 10 minutes or with 5% soda solution.

Constant operation: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		↻		↻		⤴		⤵		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
40,0	1 9/16"	53,00	2,09	10	150	30	450	120,0	4,72	70	1,060	0,72	
51,0	2"	64,00	2,52	10	150	30	450	153,0	6,02	70	1,310	0,89	
63,0	2 1/2"	76,00	2,99	10	150	30	450	189,0	7,44	70	1,930	1,30	
76,0	3"	92,00	3,62	10	150	30	450	228,0	8,98	70	2,630	1,77	

Dimensions shown may be changed without prior notice

// 455LE

**Fat food delivery 10 bar (150 psi)
FDA - D.M. 21/03/73****Tube:** white NBR.**Reinforcement:** high tensile textile cords.**Cover:** blue NBR/PVC - abrasion, ozone and oil resistant.**Application:** liquid and fat food-alcoholic beverages delivery - max 75%. Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.**Constant operation:** -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↻	↻	↻	↻	↵		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	23,00	0,91	10	150	30	450				0,380	0,26
19,0	3/4"	31,00	1,22	10	150	30	450				0,610	0,41
25,0	1"	37,00	1,46	10	150	30	450				0,760	0,52
32,0	1 1/4"	44,00	1,73	10	150	30	450				0,930	0,63
38,0	1 1/2"	50,00	1,97	10	150	30	450				1,090	0,74
51,0	2"	65,00	2,56	10	150	30	450				1,690	1,14

// 455LL

**Fat food delivery 10 bar (150 psi)
FDA - D.M. 21/03/73****Tube:** white NBR.**Reinforcement:** high tensile textile cords.**Cover:** white NBR/PVC - abrasion, ozone and oil resistant.**Application:** liquid and fat food-alcoholic beverages delivery - max 75%. Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.**Constant operation:** -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↻	↻	↻	↻	↵		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
38,0	1 1/2"	48,00	1,89	10	150	30	450				0,880	0,60
51,0	2"	63,00	2,48	10	150	30	450				1,410	0,95
76,0	3"	88,00	3,46	10	150	30	450				2,050	1,38

// 405LE



**Fat food S&D 10 bar (150 psi)
FDA - D.M. 21/03/73**

Tube: white NBR.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: blue NBR/PVC - abrasion, ozone and oil resistant.
Application: liquid and fat food-alcoholic beverages suction and delivery - max 75%. Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.
Constant operation: -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↻		↻		⤴		⤵		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	31,00	1,22	10	150	30	450	57,0	2,24	100	0,730	0,50
25,0	1"	37,00	1,46	10	150	30	450	75,0	2,95	100	0,910	0,62
32,0	1 1/4"	44,00	1,73	10	150	30	450	96,0	3,78	100	1,080	0,73
38,0	1 1/2"	50,00	1,97	10	150	30	450	114,0	4,49	100	1,260	0,85
51,0	2"	63,00	2,48	10	150	30	450	153,0	6,02	100	1,630	1,10
63,0	2 1/2"	75,00	2,95	10	150	30	450	189,0	7,44	90	2,140	1,44
76,0	3"	88,00	3,46	10	150	30	450	228,0	8,98	90	2,570	1,73
102,0	4"	116,00	4,57	10	150	30	450	306,0	12,05	90	3,560	2,40

// 405LL



**Fat food S&D 10 bar (150 psi)
FDA - D.M. 21/03/73**

Tube: white NBR.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: white NBR/PVC - abrasion, ozone and oil resistant.
Application: liquid and fat food-alcoholic beverages suction and delivery - max 75%. Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.
Constant operation: -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↻		↻		⤴		⤵		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	31,00	1,22	10	150	30	450	57,0	2,24	100	0,730	0,50
25,0	1"	37,00	1,46	10	150	30	450	75,0	2,95	100	0,910	0,62
32,0	1 1/4"	44,00	1,73	10	150	30	450	96,0	3,78	100	1,080	0,73
38,0	1 1/2"	50,00	1,97	10	150	30	450	114,0	4,49	100	1,260	0,85
51,0	2"	63,00	2,48	10	150	30	450	153,0	6,02	100	1,630	1,10
63,0	2 1/2"	75,00	2,95	10	150	30	450	189,0	7,44	90	2,140	1,44
76,0	3"	88,00	3,46	10	150	30	450	228,0	8,98	90	2,570	1,73
102,0	4"	116,00	4,57	10	150	30	450	306,0	12,05	90	3,560	2,40

Dimensions shown may be changed without prior notice

// 405LH

**Fat food S&D 10 bar (150 psi)
FDA - D.M. 21/03/73****Tube:** white NBR.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** red NBR/PVC - abrasion, ozone and oil resistant.**Application:** liquid and fat food-alcoholic beverages suction and delivery - max 75%. Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.**Constant operation:** -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↙		↘		↗		⏪		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"	37,00	1,46	10	150	30	450	75,0	2,95	100	0,920	0,62
38,0	1 1/2"	50,00	1,97	10	150	30	450	114,0	4,49	100	1,280	0,87
51,0	2"	63,00	2,48	10	150	30	450	153,0	6,02	100	1,650	1,11
76,0	3"	88,00	3,46	10	150	30	450	228,0	8,98	90	2,590	1,75
102,0	4"	116,00	4,57	10	150	30	450	306,0	12,05	90	3,600	2,42

// 417LE







**Fat food S&D 16 bar (240 psi) - Crush resistant
FDA - D.M. 21/03/73****Tube:** white NBR.**Reinforcement:** high tensile textile cords with embedded PET helix.**Cover:** blue NBR/PVC - abrasion, ozone and oil resistant.**Application:** liquid and fat food-alcoholic beverages suction and delivery - max 75%. Special crush resistant construction. Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.**Constant operation:** -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↙		↘		↗		⏪		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
38,0	1 1/2"	52,00	2,05	16	240	48	720	152,0	5,98	100	1,440	0,97
51,0	2"	65,00	2,56	16	240	48	720	204,0	8,03	100	1,860	1,26
63,0	2 1/2"	77,00	3,03	16	240	48	720	252,0	9,92	100	2,390	1,61
76,0	3"	92,00	3,62	16	240	48	720	304,0	11,97	100	3,120	2,10





// HOSE IDENTIFICATION TABLE

TECHNICAL FEATURES AND NORMS										
HOSE	TUBE	MAX TEMP. (°C)	WP (bar)	STERILIZATION	 PHTHALATE FREE	 FDA TITLE 21	 2004/1831 EC	 10/2011 EC	 2006/2003 EC	FRANCE 1994/11/09 CAT. D

PVC HOSE

	49000	PVC	+60		5% Soda	●	●				
	49200	PVC	+60	Max 20	5% Soda	●	●	●	A+B+C	●	
	4660L	PVC	+60	Max 8	5% Soda	●	●	●	A+B+C	●	
	4680H	PVC	+60	Max 7	5% Soda	●	●	●	A+B+C	●	
	47200	PVC	+60	Max 15	5% Soda	●	●	●	A+B+C	●	
	395BT	PVC	+70	50		●		●	A+B+C	●	

RUBBER HOSE

	350LE	EPDM	+165	15 Water 6 Steam		●	●	●		●	IANESCO
	452LH	NR	+80	10	Steam 110°C / 10' 5% Soda	●	●	●		●	IANESCO
	402LH	NR	+80	10	Steam 110°C / 10' 5% Soda	●	●	●		●	IANESCO
	410LL	CIIR	+108	16	Steam 130°C / 30' 5% Soda	●	●	●		●	IANESCO
	412LE	NR	+80	10	Steam 110°C / 10' 5% Soda	●	●	●		●	IANESCO
	418LE	NR	+80	10	Steam 110°C / 10' 5% Soda	●	●	●		●	IANESCO
	455LE	NBR	+100	10	Steam 130°C / 30' 5% Soda	●	●	●		●	
	405LE	NBR	+100	10	Steam 130°C / 30' 5% Soda	●	●	●		●	
	417LE	NBR	+100	16	Steam 130°C / 30' 5% Soda	●	●	●		●	
	5090E	UPE	+100	16	Steam 110°C / 10' 5% Soda	●	●	●	A+B+C+D2	●	
	720LA	NR	+80	10	5% Soda	●	●				
	760LA	NR	+80	5	5% Soda	●	●				

Dimensions shown may be changed without prior notice

ITALY D.M. 21/03/73	ALCOHOLIC BEVERAGES				DAIRY INDUSTRY		FOOD INDUSTRY			CLEANING
	≤20%	≤50%	≤75%	≤95%	MILK COLLECTING	MILK TRANSPORT	JUICES, SODAS, SAUCES, SOUPS WITH ACIDITY CONTENT	LIQUID FOOD	FAT FOOD	BULK FOOD

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// FULL COMPLIANCE WITH EUROPEAN REGULATIONS

ALFAGOMMA offers a wide range of rubber and PVC hoses for food transfer fully complying with the existing regulations for materials in contact with food:

EC 1935/2004

General requirements for materials that come into contact with food.
ALFAGOMMA food hoses are specifically developed to meet the migration limits so as not to endanger human health, change the food composition or deteriorate the taste and odour of food.

EC 2023/2006

Good manufacturing practice for materials and articles intended to come into contact with food
ALFAGOMMA has thorough quality assurance and control systems

EU 10/2011

Requirements for plastic materials, restrictions on the use of phthalates, use of specific simulants depending on food types:

	SIMULANT	FOOD
A	ethanol 10%	aqueous foods
B	acetic acid 3%	acidic foods
C	ethanol 20%	alcoholic foods up to an alcoholic content of 20%
D1	ethanol 50%	alcoholic foods with an alcoholic content of above 20% and milk products
D2	vegetable oil	fat foods
E	MPPPO (Tenax)	dry foods

ALFAGOMMA food hoses are totally phthalate and bisphenol A free.

NATIONAL LEGISLATIONS OF EU MEMBER STATES

ALFAGOMMA rubber food hoses are tested by approved external laboratory according to the most important european national provisions.

ACCORDING TO EC 1935/2004, THE FULL RANGE OF AG FOOD HOSES BEAR THE "GLASS AND FORK"  SYMBOL ON THE BRAND.

Dimensions shown may be changed without prior notice

// CLEANING GUIDELINES FOR ALFAGOMMA RUBBER FOOD HOSE

Alfagomma cleaning instructions are guidelines only.

Possible national government regulations supersede the following suggestions regarding food hose cleaning. The frequency and time of the cleaning operations could affect the life of the hose.

Users should regularly check the physical and mechanical conditions of the hose.

CLEANING BEFORE FIRST USE

Hose	Prewash	Cleaning			Final Wash	
		Media	Max Concentration	Max Temperature		Max Exposure Time
452LH 402LH 412LE 418LE 509OE 720LA 760LA	Drinking Water 80 °C 10 min	Steam	—	110 °C	30 min	Drinking Water 80 °C 10 min
455LE 405LE 417LE 410LL		Sodium Hydroxide	2%	40 °C	—	
			5%	20 °C		

STANDARD CLEANING

Hose	Cleaning			Final Wash	
	Media	Max Concentration	Max Temperature		Max Exposure Time
452LH 402LH 412LE 418LE	Steam	—	110 °C	10 min	Drinking Water 80 °C 10 min
509OE 720LA 760LA	Sodium Hydroxide	2%	40 °C	—	
		5%	20 °C		
455LE 405LE	Steam	—	130 °C	30 min	
417LE 410LL	Sodium Hydroxide	2%	40 °C	—	
		5%	20 °C		

**BEFORE USING ALTERNATIVE MEDIA, PLEASE CONTACT ALFAGOMMA.
AVOID HIGH PRESSURE CLEANING OF THE HOSE TUBE.**



// BULK FOOD



760LA	Bulk food delivery 5 bar (75 psi) - FDA.....	83
760LB	Bulk food delivery 5 bar (75 psi) - FDA.....	83
720LA	Bulk food S&D 10 bar (150 psi) - FDA.....	84
720LG	Bulk food S&D 10 bar (150 psi) - FDA.....	84
967OE	Fish handling - PVC - Super elastic.....	85
949AA	Fish pump 3 bar (45 psi).....	85

Dimensions shown may be changed without prior notice

// 760LA

**Bulk food delivery 5 bar (75 psi)
FDA****Tube:** white NR - abrasion resistant.**Reinforcement:** high tensile textile cords - antistatic wire.**Cover:** black conductive SBR/NR - abrasion and ozone resistant.**Application:** bulk food and material delivery. Specially designed for grain, flour and plastic pellets transfer.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↙		↘		↗		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
75,0	3"	93,00	3,66	5	75	15	225				2,370	1,60
90,0	3 1/2"	102,00	4,02	5	75	15	225				2,120	1,43
100,0	4"	120,00	4,72	5	75	15	225				3,550	2,39
102,0	4"	120,00	4,72	5	75	15	225				3,170	2,14
110,0	4 5/16"	122,00	4,80	5	75	15	225				2,540	1,71

// 760LB

**Bulk food delivery 5 bar (75 psi)
FDA****Tube:** white NR - abrasion resistant.**Reinforcement:** high tensile textile cords - antistatic wire.**Cover:** grey SBR/EPDM - abrasion and ozone resistant.**Application:** bulk food and material delivery. Specially designed for grain, flour and plastic pellets transfer.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↙		↘		↗		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
102,0	4"	118,00	4,65	5	75	15	225				3,140	2,12

// 720LA



**Bulk food S&D 10 bar (150 psi)
FDA**

Tube: white 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 food and material suction and delivery. Specially designed for grain, flour and plastic pellets transfer.
Constant operation: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
76,0	3"	92,00	3,62	10	150	30	450	228,0	8,98	90	2,680	1,81
90,0	3 1/2"	106,00	4,17	10	150	30	450	270,0	10,63	90	3,330	2,24
102,0	4"	118,00	4,65	10	150	30	450	306,0	12,05	90	3,700	2,49

// 720LG



**Bulk food S&D 10 bar (150 psi)
FDA**

Tube: white NR - abrasion resistant.
Reinforcement: high tensile textile cords with embedded steel helix wire - antistatic wire.
Cover: green NBR/PVC - abrasion and ozone resistant.
Application: bulk food and material suction and delivery. Specially designed for grain, flour and plastic pellets transfer.
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"	67,00	2,64	10	150	30	450	153,0	6,02	100	1,830	1,23
76,0	3"	92,00	3,62	10	150	30	450	228,0	8,98	90	2,840	1,91
102,0	4"	118,00	4,65	10	150	30	450	306,0	12,05	90	3,910	2,63
127,0	5"	145,00	5,71	5	75	15	225	508,0	20,00	80	5,680	3,82
152,0	6"	170,00	6,69	5	75	15	225	608,0	23,94	80	7,050	4,74
203,0	8"	223,00	8,78	5	75	15	225	812,0	31,97	70	10,470	7,04

Dimensions shown may be changed without prior notice

// 9670E

**Fish handling - PVC - Super elastic****Construction:** transparent PVC - abrasion and ozone resistant.**Reinforcement:** light blue shock resistant rigid PVC.**Application:** fish transfer on fish farms.**Constant operation:** -20 °C +60 °C (-4 °F +140 °F)

↔		↔		↙		↘		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
152,0	6"			2	30	6	90	380,0	14,96	95	5,600	3,77
203,0	8"			2	30	6	90	609,0	23,98	95	9,200	6,19
254,0	10"			2	30	6	90	1016,0	40,00	95	14,500	9,75
305,0	12"			1	15	3	45	1525,0	60,04	95	19,000	12,77

// 949AA

**Fish pump 3 bar (45 psi)****Tube:** black NBR - oil, abrasion and sea water resistant.**Reinforcement:** high tensile textile cords.**Cover:** black conductive CR - oil, abrasion, ozone and sea water resistant.**Application:** fish transfer from fishing net to ship deck.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↙		↘		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
254,0	10"	262,00	10,31	3	45	10	150				4,800	3,23
305,0	12"	313,00	12,32	3	45	10	150				5,740	3,86
355,0	14"	367,00	14,45	3	45	10	150				9,020	6,07
406,0	16"	418,00	16,46	3	45	10	150				10,890	7,32
457,0	18"	469,00	18,46	3	45	10	150				12,380	8,32
508,0	20"	522,00	20,55	3	45	10	150				14,330	9,64



// BULK MATERIAL



760AA	Bulk material delivery 5 bar (75 psi).....	87
766AA	Bulk material delivery 10 bar (150 psi).....	87
720AA	Bulk material S&D 10 bar (150 psi).....	88
767AL	Bulk material S&D - PVC - Polyurethane lined.....	88
780AA	Bulk material S&D - PVC.....	89

Dimensions shown may be changed without prior notice

// 760AA

**Bulk material delivery 5 bar (75 psi)****Tube:** black conductive NR - abrasion resistant.**Reinforcement:** high tensile textile cords.**Cover:** black conductive SBR/NR - abrasion and ozone resistant.**Application:** bulk material delivery. Specially designed for dry cement, grain and animal feed transfer.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
75,0	3"	93,00	3,66	5	75	15	225				2,310	1,56
90,0	3 1/2"	102,00	4,02	5	75	15	225				2,060	1,39
90,0	3 1/2"	110,00	4,33	5	75	15	225				3,140	2,12
100,0	4"	120,00	4,72	5	75	15	225				3,450	2,32
102,0	4"	114,00	4,49	5	75	15	225				2,310	1,56
102,0	4"	118,00	4,65	5	75	15	225				2,710	1,83
102,0	4"	120,00	4,72	5	75	15	225				3,130	2,11
110,0	4 5/16"	122,00	4,80	5	75	15	225				2,470	1,66
127,0	5"	145,00	5,71	5	75	15	225				3,800	2,56

// 766AA

**Bulk material delivery 10 bar (150 psi)****Tube:** black conductive NR - abrasion resistant.**Reinforcement:** high tensile textile cords.**Cover:** black conductive SBR/NR - abrasion and ozone resistant.**Application:** bulk material delivery in heavy duty applications. Specially designed for dry cement, grain and animal feed transfer.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
76,0	3"	92,00	3,62	10	150	30	450				2,120	1,43
102,0	4"	118,00	4,65	10	150	30	450				2,860	1,93
127,0	5"	143,00	5,63	10	150	30	450				3,530	2,38

// 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 feed transfer.
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"	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

// 767AL



Bulk material S&D - PVC - Polyurethane lined

Construction: black antistatic polyurethane coextruded with black PVC - abrasion and ozone resistant.
Reinforcement: white shock resistant rigid PVC.
Application: bulk material suction and low pressure delivery-gravity feed. Specially designed for gravel, cement and iron ore transfer.
Constant operation: -20 °C +60 °C (-4 °F +140 °F)

↔		↔		↻		↻		↷		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
51,0	2"			3	45	9	135	102,0	4,02	90	0,900	0,61
63,0	2 1/2"			3	45	9	135	126,0	4,96	90	1,470	0,99
76,0	3"			3	45	9	135	152,0	5,98	90	1,830	1,23
102,0	4"			2	30	6	90	204,0	8,03	90	2,980	2,01
127,0	5"			2	30	6	90	254,0	10,00	90	4,200	2,83
152,0	6"			2	30	6	90	304,0	11,97	90	5,150	3,47

Dimensions shown may be changed without prior notice

// 780AA

**Bulk material S&D - PVC****Construction:** black antistatic synthetic elastomer.**Reinforcement:** black shock resistant thermoplastic elastomer.**Application:** bulk material suction and low pressure delivery-gravity feed. Specially designed for gravel, cement and iron ore transfer.**Constant operation:** -15 °C +60 °C (+5 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
38,0	1 1/2"	47,00	1,85	2	30	8	120	80,0	3,15	100	0,570	0,39
51,0	2"	61,00	2,40	2	30	8	120	120,0	4,72	100	0,860	0,58
63,0	2 1/2"	75,00	2,95	2	30	8	120	200,0	7,87	100	1,090	0,74
76,0	3"	90,00	3,54	1	15	4	60	240,0	9,45	100	1,390	0,94
102,0	4"	119,00	4,69	1	15	4	60	320,0	12,60	100	2,560	1,73
127,0	5"	146,00	5,75	1	15	4	60	480,0	18,90	100	3,320	2,24
152,0	6"	175,00	6,89	1	15	4	60	720,0	28,35	100	4,890	3,29



// SANDBLAST



753AA	Sandblast 12 bar (180 psi) - Premium quality.....	91
753AH	Sandblast 12 bar (180 psi) - Premium quality.....	91
753AG	Sandblast 12 bar (180 psi) - Premium quality.....	92
755AA	Sandblast 12 bar (180 psi) - Top quality.....	92

Dimensions shown may be changed without prior notice

// 753AA

**Sandblast 12 bar (180 psi) - Premium quality**

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

Reinforcement: high tensile textile cords.

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

Application: abrasive material blasting. Designed for long service life in heavy duty applications.

Constant operation: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	27,00	1,06	12	180	36	540				0,540	0,37
19,0	3/4"	33,00	1,30	12	180	36	540				0,700	0,48
19,0	3/4"	38,00	1,50	12	180	36	540				0,990	0,67
19,0	3/4"	40,00	1,57	12	180	36	540				1,150	0,78
25,0	1"	39,00	1,54	12	180	36	540				0,860	0,58
25,0	1"	48,00	1,89	12	180	36	540				1,520	1,03
32,0	1 1/4"	48,00	1,89	12	180	36	540				1,220	0,82
32,0	1 1/4"	55,00	2,17	12	180	36	540				1,810	1,22
38,0	1 1/2"	55,00	2,17	12	180	36	540				1,630	1,10
38,0	1 1/2"	60,00	2,36	12	180	36	540				2,050	1,38
51,0	2"	71,00	2,80	12	180	36	540				2,380	1,60
51,0	2"	73,00	2,87	12	180	36	540				2,640	1,78
51,0	2"	76,00	2,99	12	180	36	540				2,910	1,96

// 753AH

**Sandblast 12 bar (180 psi) - Premium quality**

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

Reinforcement: high tensile textile cords.

Cover: red SBR/EPDM - abrasion and ozone resistant - pin pricked.

Application: abrasive material blasting. Designed for long service life in heavy duty applications.

Constant operation: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	27,00	1,06	12	180	36	540				0,540	0,37
19,0	3/4"	33,00	1,30	12	180	36	540				0,700	0,48
25,0	1"	39,00	1,54	12	180	36	540				0,860	0,58
32,0	1 1/4"	48,00	1,89	12	180	36	540				1,220	0,82
38,0	1 1/2"	55,00	2,17	12	180	36	540				1,630	1,10
51,0	2"	71,00	2,80	12	180	36	540				2,380	1,60

// 753AG



Sandblast 12 bar (180 psi) - Premium quality

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

Reinforcement: high tensile textile cords.

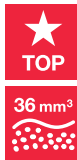
Cover: green SBR/EPDM - abrasion and ozone resistant - pin pricked.

Application: abrasive material blasting. Designed for long service life in heavy duty applications.

Constant operation: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		↙		↘		↵		%		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in			kg/m	lb/ft
19,0	3/4"	38,00	1,50	12	180	36	540					0,970	0,66
25,0	1"	48,00	1,89	12	180	36	540					1,500	1,01
32,0	1 1/4"	55,00	2,17	12	180	36	540					1,790	1,21
38,0	1 1/2"	60,00	2,36	12	180	36	540					1,790	1,21

// 755AA



Sandblast 12 bar (180 psi) - Top quality

Tube: black conductive NR - abrasion resistance 36 mm³ (ISO 4649/A).

Reinforcement: high tensile textile cords.

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

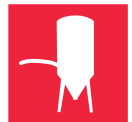
Application: abrasive material blasting. Designed for long service life in heavy duty application.

Constant operation: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		↙		↘		↵		%		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in			kg/m	lb/ft
19,0	3/4"	33,00	1,30	12	180	36	540					0,740	0,50
25,0	1"	39,00	1,54	12	180	36	540					0,910	0,62
32,0	1 1/4"	48,00	1,89	12	180	36	540					1,280	0,87
38,0	1 1/2"	55,00	2,17	12	180	36	540					1,470	0,99
51,0	2"	71,00	2,80	12	180	36	540					2,430	1,64



// PLASTER



764OL	Plaster conveyance - Polyurethane.....	94
752AA	Plaster 10 bar (150 psi).....	94
757AA	Plaster 40 bar (600 psi).....	94
758AA	Plaster 55 bar (800 psi).....	95
758AE	Plaster 55 bar (800 psi).....	95

// 7640L



Plaster conveyance - Polyurethane

Construction: transparent polyurethane - abrasion and ozone resistant.

Reinforcement: white shock resistant rigid PVC.

Application: pneumatic conveyance of pre-mixed synthetic plaster from silo to plaster pumping machine. Assembly complete with fittings also available.

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

↔		↔		↻		↻		⤴		⚠		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
45,0	1 3/4"							203,0	7,99	60	0,680	0,46	

// 752AA



Plaster 10 bar (150 psi)

Tube: black conductive NR - abrasion resistant.

Reinforcement: high tensile textile cords.

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

Application: plaster and sand/cement mix pumping. Also suitable for heavy duty sandblast.

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

↔		↔		↻		↻		⤴		⚠		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
60,0	2 3/8"	80,00	3,15	10	150	30	450				2,310	1,56	
65,0	2 9/16"	85,00	3,35	10	150	30	450				2,520	1,70	
90,0	3 1/2"	113,00	4,45	10	150	30	450				4,110	2,77	
102,0	4"	127,00	5,00	10	150	30	450				4,680	3,15	

// 757AA



Plaster 40 bar (600 psi)

Tube: black conductive NR - abrasion resistant.

Reinforcement: high tensile textile cords.

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

Application: plaster pumping.

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"	38,00	1,50	40	600	100	1500				0,700	0,48	
32,0	1 1/4"	46,00	1,81	40	600	100	1500				0,870	0,59	
35,0	1 3/8"	49,00	1,93	40	600	100	1500				0,960	0,65	
38,0	1 1/2"	54,00	2,13	40	600	100	1500				1,190	0,80	
51,0	2"	67,00	2,64	40	600	100	1500				1,600	1,08	

Dimensions shown may be changed without prior notice

// 758AA

**Plaster 55 bar (800 psi)****Tube:** black conductive NR - abrasion resistant.**Reinforcement:** high tensile textile cords.**Cover:** black SBR/NR - abrasion and ozone resistant - pin pricked.**Application:** plaster pumping.**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"	40,00	1,57	55	800	140	2000				0,870	0,59	
32,0	1 1/4"	49,00	1,93	55	800	140	2000				1,250	0,85	
38,0	1 1/2"	58,00	2,28	55	800	140	2000				1,710	1,15	
51,0	2"	71,00	2,80	55	800	110	1600				2,220	1,50	

// 758AE

**Plaster 55 bar (800 psi)****Tube:** black conductive NR - abrasion resistant.**Reinforcement:** high tensile textile cords.**Cover:** blue SBR/EPDM - abrasion and ozone resistant.**Application:** plaster pumping.**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"	40,00	1,57	55	800	140	2000				0,940	0,64	
32,0	1 1/4"	49,00	1,93	55	800	140	2000				1,450	0,98	
38,0	1 1/2"	58,00	2,28	55	800	140	2000				1,990	1,34	
51,0	2"	71,00	2,80	55	800	110	1600				2,570	1,73	



// CONCRETE



754AA	Concrete vibrator 10 bar (150 psi).....	97
737AA	Concrete pumping 40 bar (600 psi).....	97
740AA	Concrete pumping 85 bar (1275 psi) - Heavy duty - Steel reinforced.....	98
741AA	Concrete pumping 100 bar (1500 psi) - Extra service - Steel reinforced.....	98

Dimensions shown may be changed without prior notice

// 754AA

**Concrete vibrator 10 bar (150 psi)****Tube:** black SBR.**Reinforcement:** high tensile textile cords.**Cover:** black SBR - abrasion and ozone resistant.**Application:** pneumatic concrete vibrators.**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"	31,00	1,22	10	150	40	600				0,690	0,47	
25,0	1"	39,00	1,54	10	150	40	600				1,030	0,70	

// 737AA

**Concrete pumping 40 bar (600 psi)****Tube:** black conductive NR - abrasion resistant.**Reinforcement:** high tensile textile cords.**Cover:** black conductive SBR/NR - abrasion and ozone resistant.**Application:** concrete pumping.**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"	69,00	2,72	40	600	100	1500				1,810	1,22	
63,0	2 1/2"	83,00	3,27	40	600	100	1500				2,500	1,69	
76,0	3"	104,00	4,09	40	600	100	1500				4,330	2,91	
90,0	3 1/2"	118,00	4,65	40	600	100	1500				5,080	3,42	
102,0	4"	130,00	5,12	40	600	100	1500				5,750	3,87	

// 740AA



Concrete pumping 85 bar (1275 psi) - Heavy duty - Steel reinforced

Tube: black conductive NR - abrasion resistant.
Reinforcement: high tensile steel cords.
Cover: black conductive SBR/NR - abrasion and ozone resistant.
Application: high pressure concrete pumping.
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"	69,00	2,72	85	1275	170	2500	255,0	10,04		2,100	1,42
63,0	2 1/2"	85,00	3,35	85	1275	170	2500	315,0	12,40		3,300	2,22
76,0	3"	100,00	3,94	85	1275	170	2500	380,0	14,96		4,490	3,02
90,0	3 1/2"	116,00	4,57	85	1275	170	2500	450,0	17,72		5,430	3,65
102,0	4"	126,00	4,96	85	1275	170	2500	510,0	20,08		6,520	4,39
127,0	5"	153,00	6,02	85	1275	170	2500	635,0	25,00		10,140	6,82
152,0	6"	184,00	7,24	85	1275	170	2500	760,0	29,92		13,660	9,19

// 741AA



Concrete pumping 100 bar (1500 psi) - Extra service - Steel reinforced

Tube: black conductive NR - abrasion resistant.
Reinforcement: high tensile steel cords.
Cover: black conductive SBR/NR - abrasion and ozone resistant.
Application: high pressure concrete pumping. 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"	69,00	2,72	100	1500	200	2900	255,0	10,04		2,570	1,73
63,0	2 1/2"	85,00	3,35	100	1500	200	2900	315,0	12,40		3,750	2,53
76,0	3"	100,00	3,94	100	1500	200	2900	380,0	14,96		4,950	3,33
90,0	3 1/2"	116,00	4,57	100	1500	200	2900	450,0	17,72		7,190	4,84
102,0	4"	128,00	5,04	100	1500	200	2900	510,0	20,08		7,630	5,13
127,0	5"	155,00	6,10	100	1500	200	2900	635,0	25,00		10,220	6,87



// ACID CHEMICAL & MULTIPURPOSE



984AH	Multipurpose 20 bar (300 psi).....	100
974AH	Multipurpose 17 bar (250 psi) - Non conductive.....	100
975AH	Multipurpose 20 bar (300 psi) - Non conductive.....	101
954AH	Multipurpose 20 bar (300 psi) - Non conductive.....	101
976AB	General purpose 20 bar (300 psi) - EPDM.....	102
956AB	General purpose 20 bar (300 psi) - EPDM.....	102
503AA	Acid-chemical S&D 16 bar (240 psi) - EPDM - EN 12115.....	103
505OG	Acid-chemical S&D 16 bar (240 psi) - XLPE.....	103
529AA	Acid-chemical S&D 16 bar (240 psi) - UPE - EN 12115 - EU 10/2011 A+B+C+D2.....	104
509OE	Acid-chemical S&D 16 bar (240 psi) - UPE - FDA - EU 10/2011 A+B+C+D2.....	104
519OE	Acid-chemical S&D 16 bar (240 psi) - UPE - Corrugated - FDA - EU 10/2011 A+B+C+D2.....	105
538AA	Tank cleaning 20 bar (300 psi) - EPDM - Textile braided.....	105

// 984AH



Multipurpose 20 bar (300 psi)

Tube: black synthetic elastomer.

Reinforcement: high tensile textile cords.

Cover: red synthetic elastomer with longitudinal blue stripes - abrasion, ozone and hydrocarbon resistant.

Application: compressed air, water, fuel and oil delivery in general industrial applications.

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	20	300	60	900	48,0	1,89		0,140	0,10
8,0	5/16"	15,00	0,59	20	300	60	900	64,0	2,52		0,170	0,12
10,0	3/8"	17,00	0,67	20	300	60	900	80,0	3,15		0,200	0,14
13,0	1/2"	21,00	0,83	20	300	60	900	104,0	4,09		0,275	0,19
16,0	5/8"	25,00	0,98	20	300	60	900	128,0	5,04		0,370	0,25
19,0	3/4"	29,00	1,14	20	300	60	900	152,0	5,98		0,500	0,34
25,0	1"	35,00	1,38	20	300	60	900	200,0	7,87		0,625	0,43

// 974AH



Multipurpose 17 bar (250 psi) - Non conductive

Tube: black non conductive NBR (RMA Class A).

Reinforcement: high tensile textile cords.

Cover: red NBR/PVC (RMA Class B) - abrasion, ozone and hydrocarbon resistant.

Application: premium quality compressed air, water, fuel and oil delivery in general industrial applications.

Constant operation: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	13,00	0,51	17	250	68	986	38,0	1,50		0,120	0,09
10,0	3/8"	18,00	0,71	17	250	68	986	57,0	2,24		0,250	0,17
13,0	1/2"	21,00	0,83	17	250	68	986	76,0	2,99		0,360	0,25
16,0	5/8"	25,00	0,98	17	250	68	986	95,0	3,74		0,420	0,29
19,0	3/4"	29,00	1,14	17	250	68	986	114,0	4,49		0,540	0,37
25,0	1"	36,00	1,42	17	250	68	986	178,0	7,01		0,730	0,50

Dimensions shown may be changed without prior notice

// 975AH

**Multipurpose 20 bar (300 psi) - Non conductive****Tube:** black non conductive NBR (RMA Class A).**Reinforcement:** high tensile textile cords.**Cover:** red NBR/PVC (RMA Class A) - abrasion, ozone and hydrocarbon resistant.**Application:** premium quality compressed air, water, fuel and oil delivery in general industrial applications.**Constant operation:** -25 °C +80 °C (-13 °F +176 °F)

↔		↔		↙		↘		↷		%		♻️	
mm	in	mm	in	bar	psi	bar	psi	mm	in		kg/m	lb/ft	
6,0	1/4"	16,00	0,63	20	300	80	1200	38,0	1,50		0,240	0,17	
10,0	3/8"	18,00	0,71	20	300	80	1200	57,0	2,24		0,270	0,19	
13,0	1/2"	21,00	0,83	20	300	80	1200	76,0	2,99		0,370	0,25	
19,0	3/4"	29,00	1,14	20	300	80	1200	114,0	4,49		0,620	0,42	
25,0	1"	36,00	1,42	20	300	80	1200	178,0	7,01		0,940	0,64	

// 954AH

**Multipurpose 20 bar (300 psi) - Non conductive****Tube:** black non conductive NBR.**Reinforcement:** high tensile textile cords.**Cover:** red NBR/PVC - abrasion, ozone and hydrocarbon resistant.**Application:** premium quality compressed air, water, fuel and oil delivery in 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	
32,0	1 1/4"	44,00	1,73	20	300	60	900				1,050	0,71	
38,0	1 1/2"	50,00	1,97	20	300	60	900				1,220	0,82	
51,0	2"	65,00	2,56	20	300	60	900				1,610	1,09	

// 976AB



General purpose 20 bar (300 psi) - EPDM

Tube: black conductive EPDM.

Reinforcement: high tensile textile cords.

Cover: grey EPDM - abrasion and ozone resistant.

Application: air, water and mild chemicals delivery in general industrial applications.

Constant operation: -40 °C +100 °C (-40 °F +212 °F)

↔		↔		↻		↻		⤴		⌘	⌚	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
6,0	1/4"	13,00	0,51	20	300	60	900	40,0	1,57		0,130	0,09
8,0	5/16"	15,00	0,59	20	300	60	900	50,0	1,97		0,160	0,11
10,0	3/8"	17,00	0,67	20	300	60	900	60,0	2,36		0,190	0,13
13,0	1/2"	21,00	0,83	20	300	60	900	75,0	2,95		0,270	0,19
16,0	5/8"	25,00	0,98	20	300	60	900	95,0	3,74		0,360	0,25
19,0	3/4"	29,00	1,14	20	300	60	900	100,0	3,94		0,460	0,31
25,0	1"	35,00	1,38	20	300	60	900	120,0	4,72		0,580	0,39

// 956AB



General purpose 20 bar (300 psi) - EPDM

Tube: black conductive EPDM.

Reinforcement: high tensile textile cords.

Cover: grey EPDM - abrasion and ozone resistant.

Application: air, water and mild chemicals delivery in general industrial applications.

Constant operation: -40 °C +100 °C (-40 °F +212 °F)

↔		↔		↻		↻		⤴		⌘	⌚	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
32,0	1 1/4"	44,00	1,73	20	300	60	900				0,920	0,62
38,0	1 1/2"	52,00	2,05	20	300	60	900				1,080	0,73
51,0	2"	66,00	2,60	20	300	60	900				1,650	1,11

Dimensions shown may be changed without prior notice

// 503AA

**Acid-chemical S&D 16 bar (240 psi) - EPDM EN 12115****Tube:** black conductive EPDM.**Reinforcement:** high tensile textile cords with embedded steel helix wire - antistatic wire.**Cover:** black conductive EPDM - abrasion, ozone and fire resistant.**Application:** acid and chemical suction and delivery.**Constant operation:** -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

↔		↔		↙		↘		⤴		⤵		⚖	
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	90	0,730	0,50	
25,0	1"	37,00	1,46	16	240	64	960	125,0	4,92	90	0,900	0,61	
32,0	1 1/4"	44,00	1,73	16	240	64	960	160,0	6,30	90	1,080	0,73	
38,0	1 1/2"	51,00	2,01	16	240	64	960	190,0	7,48	90	1,240	0,84	
50,0	2"	66,00	2,60	16	240	64	960	250,0	9,84	90	1,880	1,27	
51,0	2"	67,00	2,64	16	240	64	960	250,0	9,84	90	1,910	1,29	
63,0	2 1/2"	79,00	3,11	16	240	64	960	300,0	11,81	90	2,480	1,67	
75,0	3"	91,00	3,58	16	240	64	960	350,0	13,78	80	2,960	1,99	
76,0	3"	92,00	3,62	16	240	64	960	350,0	13,78	80	2,990	2,01	
100,0	4"	116,00	4,57	16	240	64	960	450,0	17,72	80	3,970	2,67	
102,0	4"	118,00	4,65	16	240	64	960	450,0	17,72	80	4,040	2,72	

103

HOSE

// 5050G

**Acid-chemical S&D 16 bar (240 psi) - XLPE****Tube:** transparent XLPE (Cross Linked Polyethylene).**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** green EPDM - abrasion and ozone resistant.**Application:** acid and chemical suction and delivery. Suitable for 90% of existing chemicals.**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"	31,00	1,22	16	240	48	720	114,0	4,49	90	0,670	0,46	
25,0	1"	37,00	1,46	16	240	48	720	150,0	5,91	90	0,820	0,56	
32,0	1 1/4"	44,00	1,73	16	240	48	720	192,0	7,56	90	0,980	0,66	
38,0	1 1/2"	50,00	1,97	16	240	48	720	192,0	7,56	90	1,120	0,76	
51,0	2"	63,00	2,48	16	240	48	720	300,0	11,81	90	1,480	1,00	
63,0	2 1/2"	77,00	3,03	16	240	48	720	378,0	14,88	90	2,260	1,52	
76,0	3"	92,00	3,62	16	240	48	720	450,0	17,72	80	2,710	1,83	
102,0	4"	118,00	4,65	16	240	48	720	600,0	23,62	80	3,700	2,49	

// 529AA



**Acid-chemical S&D 16 bar (240 psi) - UPE
EN 12115 - EU 10/2011 A+B+C+D2**

Tube: black conductive UPE (Ultra High Molecular Weight Polyethylene).

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

Cover: black conductive EPDM - abrasion, ozone and fire resistant.

Application: acid and chemical suction and delivery. Suitable for 98% of existing chemicals.

Constant operation: -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

↔		↔		↙		↘		↷		⚖		
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	114,0	4,49	90	0,670	0,46
25,0	1"	37,00	1,46	16	240	64	960	150,0	5,91	90	0,830	0,56
32,0	1 1/4"	44,00	1,73	16	240	64	960	192,0	7,56	90	1,000	0,68
38,0	1 1/2"	51,00	2,01	16	240	64	960	228,0	8,98	90	1,300	0,88
50,0	2"	66,00	2,60	16	240	64	960	300,0	11,81	90	1,960	1,32
51,0	2"	67,00	2,64	16	240	64	960	300,0	11,81	90	1,990	1,34
75,0	3"	91,00	3,58	16	240	64	960	450,0	17,72	80	3,070	2,07
76,0	3"	92,00	3,62	16	240	64	960	450,0	17,72	80	3,110	2,10
100,0	4"	116,00	4,57	16	240	64	960	600,0	23,62	80	4,120	2,77
102,0	4"	118,00	4,65	16	240	64	960	600,0	23,62	80	4,190	2,82

// 5090E



**Acid-chemical S&D 16 bar (240 psi) - UPE
FDA - EU 10/2011 A+B+C+D2**

Tube: transparent UPE (Ultra High Molecular Weight Polyethylene).

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

Cover: blue EPDM - abrasion and ozone resistant.

Application: acid and chemical suction and delivery. Suitable for 98% of existing chemicals.

Constant operation: -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

↔		↔		↙		↘		↷		⚖		
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	114,0	4,49	90	0,590	0,40
25,0	1"	37,00	1,46	16	240	48	720	150,0	5,91	90	0,730	0,50
32,0	1 1/4"	44,00	1,73	16	240	48	720	192,0	7,56	90	0,880	0,60
38,0	1 1/2"	50,00	1,97	16	240	48	720	228,0	8,98	90	1,010	0,68
40,0	1 9/16"	52,00	2,05	16	240	48	720	240,0	9,45	90	1,050	0,71
51,0	2"	63,00	2,48	16	240	48	720	300,0	11,81	90	1,340	0,91
63,0	2 1/2"	77,00	3,03	16	240	48	720	378,0	14,88	90	2,090	1,41
76,0	3"	92,00	3,62	16	240	48	720	450,0	17,72	80	2,840	1,91
102,0	4"	118,00	4,65	16	240	48	720	600,0	23,62	80	3,870	2,61

Dimensions shown may be changed without prior notice

// 5190E


**Acid-chemical S&D 16 bar (240 psi) - UPE - Corrugated
FDA - EU 10/2011 A+B+C+D2**

Tube: transparent UPE (Ultra High Molecular Weight Polyethylene).

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

Cover: blue EPDM - abrasion and ozone resistant.

Application: acid and chemical suction and delivery. Suitable for 98% of existing chemicals. Special construction for maximum flexibility.

Constant operation: -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

↔		↔		↻		↻		⤴		⚠		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
51,0	2"			16	240	48	720	150,0	5,91	90	1,390	0,94	
76,0	3"			16	240	48	720	228,0	8,98	90	2,510	1,69	
102,0	4"			16	240	48	720	300,0	11,81	90	4,100	2,76	

105

HOSE

// 538AA


Tank cleaning 20 bar (300 psi) - EPDM - Textile braided

Tube: black conductive EPDM.

Reinforcement: high tensile textile braids - stainless steel antistatic wires.

Cover: black conductive EPDM - abrasion and ozone resistant.

Application: acid and chemical delivery in storage tanks cleaning applications..

Constant operation: -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

↔		↔		↻		↻		⤴		⚠		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
38,0	1 1/2"	54,00	2,13	20	300	60	900	304,0	11,97		1,330	0,90	
51,0	2"	67,00	2,64	20	300	60	900	408,0	16,06		1,840	1,24	





687AA	Automotive fuel 10 bar (150 psi) - DIN 73379/2A.....	108
689AA	Automotive fuel 10 bar (150 psi) - External textile braid.....	108
688AA	Diesel oil delivery 15 bar (225 psi) - External steel braid.....	108
680AA	Fuel-oil delivery 10 bar (150 psi).....	109
671AA	Fuel-oil delivery 16 bar (240 psi).....	109
650AA	Fuel-oil delivery 10 bar (150 psi).....	110
650AH	Fuel-oil delivery 10 bar (150 psi).....	110
650AB	Fuel-oil delivery 10 bar (150 psi).....	111
668EL	Fuel-oil S&D - PVC - Heavy duty.....	111
601AA	Oil rigger-fracking S&D 10 bar (150 psi).....	112
605AA	Fuel-oil S&D 10 bar (150 psi) - exceed SAE 100R4 - SAE J2006/R2 - ISO 13363/2/A+B.....	112
605AH	Fuel-oil S&D 10 bar (150 psi).....	113
629AA	Biofuel S&D 10 bar (150 psi).....	113
606AE	Tank truck 10 bar (150 psi) - Corrugated - Low temperature.....	113
655AA	Fuel-oil delivery 16 bar (240 psi) - exceeds EN 1761 - TRbF 131/2.....	114
619AA	Fuel-oil S&D 16 bar (240 psi) - EN 12115 - exceeds EN 1761 - TRbF 131/2.....	114
620AA	Fuel-oil S&D 20 bar (300 psi).....	115
658AA	Domestic fuel reeling 16 bar (240 psi) - Textile braided - EN 1360/1 - TRbF 131/2.....	115
659AA	LPG delivery 25 bar (375 psi) - Textile braided - EN 1762/DM.....	116
656AA	Aircraft ground fuelling 20 bar (300 psi) - EN ISO 1825/C.....	117
611AA	Aircraft ground fuelling-defuelling 20 bar (300 psi) - EN ISO 1825/F.....	117
614AA	Hot tar 10 bar (150 psi).....	118

// 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

// 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	0,590	0,40
25,0	1"	36,00	1,42	10	150	30	450	100,0	3,94	100	0,740	0,50
30,0	1 3/16"	41,00	1,61	10	150	30	450	120,0	4,72	100	0,840	0,57
32,0	1 1/4"	43,00	1,69	10	150	30	450	128,0	5,04	100	0,880	0,60
35,0	1 3/8"	46,00	1,81	10	150	30	450	140,0	5,51	100	0,960	0,65
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	1,020	0,69
40,0	1 9/16"	51,00	2,01	10	150	30	450	160,0	6,30	100	1,070	0,72
42,0	1 5/8"	53,00	2,09	10	150	30	450	168,0	6,61	100	1,120	0,76
45,0	1 3/4"	56,00	2,20	10	150	30	450	180,0	7,09	100	1,190	0,80
48,0	1 7/8"	59,00	2,32	10	150	30	450	192,0	7,56	100	1,260	0,85
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,320	0,89
57,0	2 1/4"	68,00	2,68	10	150	30	450	228,0	8,98	100	1,480	1,00
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	2,550	1,72
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	0,610	0,41
25,0	1"	36,00	1,42	10	150	30	450	100,0	3,94	100	0,760	0,52
32,0	1 1/4"	43,00	1,69	10	150	30	450	128,0	5,04	100	0,900	0,61
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	1,050	0,71
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,360	0,92
76,0	3"	89,00	3,50	10	150	30	450	304,0	11,97	90	2,550	1,72
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

115

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		1,720	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	
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

117

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



// MARINE



266LL	Marine sanitary hose - PVC.....	120
202LL	Marine sanitary hose 7 bar (100 psi).....	120
653AA	Marine exhaust - Soft wall.....	121
6E1AA	Marine exhaust - Hard wall - SAE J2006/R2 - ISO 13363/2/A+B.....	122
605AA	Fuel-oil S&D 10 bar (150 psi) - exceed SAE 100R4 - SAE J2006/R2 - ISO 13363/2/A+B.....	123

// 266LL



Marine sanitary hose - PVC

Construction: white thermoplastic elastomer.
Reinforcement: white shock resistant rigid PVC.
Application: sanitary hose for marine installations.
Constant operation: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"			8	120	24	350	75,0	2,95	70	0,300	0,21
25,0	1"			8	120	24	350	120,0	4,72	70	0,380	0,26
38,0	1 1/2"			6	90	18	270	170,0	6,69	70	0,580	0,39

// 202LL



Marine sanitary hose 7 bar (100 psi) ISO 8099

Tube: white chlorobutyl - impermeable and odourless.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: white NBR/PVC - abrasion, ozone and hydrocarbon resistant.
Application: sanitary hose for marine installations. Designed for excellent kink resistance at tight bend radius and maximum flexibility. Top permeability resistance.
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	7	100	21	300	38,0	1,50	100	0,670	0,46
25,0	1"	35,00	1,38	7	100	21	300	50,0	1,97	100	0,840	0,57
38,0	1 1/2"	48,00	1,89	7	100	21	300	76,0	2,99	100	1,260	0,85
51,0	2"	61,00	2,40	7	100	21	300	102,0	4,02	100	1,640	1,11

Dimensions shown may be changed without prior notice

// 653AA



LLOYD'S

Marine exhaust - Soft wall
SAE J2006/R1 - ISO 13363/1/A+B
Tube: black synthetic rubber.**Reinforcement:** high tensile textile cords.**Cover:** black synthetic rubber - abrasion and ozone resistant.**Application:** marine wet exhaust. Also suitable for bilge pump connection.**Constant operation:** -30 °C +100 °C (-22 °F +212 °F)

↔		↔		⊙		⊙		⌒		%	Ⓜ	
mm	in	mm	in	bar	psi	bar	psi	mm	in		kg/m	lb/ft
25,0	1"	35,00	1,38	3	45	15	225				0,630	0,43
28,0	1 1/8"	38,00	1,50	3	45	15	225				0,700	0,48
32,0	1 1/4"	42,00	1,65	3	45	15	225				0,780	0,53
35,0	1 3/8"	45,00	1,77	3	45	15	225				0,840	0,57
38,0	1 1/2"	48,00	1,89	3	45	15	225				0,910	0,62
42,0	1 5/8"	52,00	2,05	3	45	15	225				0,990	0,67
45,0	1 3/4"	55,00	2,17	3	45	15	225				1,050	0,71
48,0	1 7/8"	58,00	2,28	3	45	15	225				1,120	0,76
51,0	2"	63,00	2,48	3	45	15	225				1,440	0,97
57,0	2 1/4"	69,00	2,72	3	45	15	225				1,590	1,07
60,0	2 3/8"	74,00	2,91	3	45	15	225				1,960	1,32
63,0	2 1/2"	77,00	3,03	3	45	15	225				2,050	1,38
76,0	3"	90,00	3,54	3	45	15	225				2,460	1,66
90,0	3 1/2"	104,00	4,09	3	45	15	225				2,920	1,97
102,0	4"	116,00	4,57	3	45	15	225				3,270	2,20
115,0	4 1/2"	129,00	5,08	3	45	15	225				3,650	2,46
127,0	5"	141,00	5,55	3	45	15	225				4,030	2,71
152,0	6"	168,00	6,61	3	45	15	225				4,900	3,30
168,0	6 5/8"	184,00	7,24	3	45	15	225				5,370	3,61
203,0	8"	221,00	8,70	3	45	15	225				7,460	5,02

// 6E1AA



**Marine exhaust - Hard wall
SAE J2006/R2 - ISO 13363/2/A+B**

Tube: black synthetic rubber - oil resistant.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: black synthetic rubber - abrasion and ozone resistant.
Application: marine wet exhaust. Also suitable for bilge pump connection. Special lightweight construction for maximum flexibility. Max 40% aromatic content resistance.
Constant operation: -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↻		↻		↵		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"			3	45	15	225	50,0	1,97	100	0,550	0,37
28,0	1 1/8"			3	45	15	225	56,0	2,20	100	0,610	0,41
32,0	1 1/4"			3	45	15	225	64,0	2,52	100	0,680	0,46
35,0	1 3/8"			3	45	15	225	70,0	2,76	100	0,740	0,50
38,0	1 1/2"			3	45	15	225	76,0	2,99	100	0,800	0,54
40,0	1 9/16"			3	45	15	225	80,0	3,15	100	0,840	0,57
42,0	1 5/8"			3	45	15	225	84,0	3,31	100	0,870	0,59
45,0	1 3/4"			3	45	15	225	90,0	3,54	100	0,930	0,63
48,0	1 7/8"			3	45	15	225	96,0	3,78	100	0,990	0,67
51,0	2"			3	45	15	225	102,0	4,02	100	1,040	0,70
60,0	2 3/8"			3	45	15	225	120,0	4,72	90	1,580	1,07
63,0	2 1/2"			3	45	15	225	126,0	4,96	90	1,660	1,12
76,0	3"			3	45	15	225	152,0	5,98	90	1,970	1,33
80,0	3 1/8"			3	45	15	225	160,0	6,30	90	2,070	1,40
90,0	3 1/2"			3	45	15	225	180,0	7,09	90	2,510	1,69
102,0	4"			3	45	15	225	204,0	8,03	90	2,820	1,90
115,0	4 1/2"			3	45	15	225	230,0	9,06	90	3,000	2,02
127,0	5"			3	45	15	225	254,0	10,00	80	3,790	2,55
152,0	6"			3	45	15	225	304,0	11,97	80	4,300	2,89
203,0	8"			3	45	15	225	406,0	15,98	70	7,460	5,02

Dimensions shown may be changed without prior notice

// 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	0,590	0,40
25,0	1"	36,00	1,42	10	150	30	450	100,0	3,94	100	0,740	0,50
30,0	1 3/16"	41,00	1,61	10	150	30	450	120,0	4,72	100	0,840	0,57
32,0	1 1/4"	43,00	1,69	10	150	30	450	128,0	5,04	100	0,880	0,60
35,0	1 3/8"	46,00	1,81	10	150	30	450	140,0	5,51	100	0,960	0,65
38,0	1 1/2"	49,00	1,93	10	150	30	450	152,0	5,98	100	1,020	0,69
40,0	1 9/16"	51,00	2,01	10	150	30	450	160,0	6,30	100	1,070	0,72
42,0	1 5/8"	53,00	2,09	10	150	30	450	168,0	6,61	100	1,120	0,76
45,0	1 3/4"	56,00	2,20	10	150	30	450	180,0	7,09	100	1,190	0,80
48,0	1 7/8"	59,00	2,32	10	150	30	450	192,0	7,56	100	1,260	0,85
51,0	2"	62,00	2,44	10	150	30	450	204,0	8,03	100	1,320	0,89
57,0	2 1/4"	68,00	2,68	10	150	30	450	228,0	8,98	100	1,480	1,00
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



// DOCK



60DAA	Fuel-oil S&D 10 bar (150 psi) - EN 1765/S10.....	125
64AAA	Fuel-oil delivery 10 bar (150 psi) - EN 1765/L10.....	125
60NAA	Fuel-oil S&D 15 bar (225 psi) - EN 1765/S15.....	126
60GAA	Fuel-oil S&D 15 bar (225 psi) - EN 1765/S15.....	126
64DAA	Fuel-oil delivery 15 bar (225 psi) - EN 1765/L15.....	127
60PAA	Fuel-oil S&D 20 bar (300 psi) - exceeds EN 1765/S15.....	127
64PAA	Fuel-oil delivery 20 bar (300 psi) - exceeds EN 1765/L15.....	128

Dimensions shown may be changed without prior notice

// 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).

Built-in fittings.

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

Constant operation: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		↻		↻		↷		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
100,0	4"			10	150	40	600	500,0	19,69	100	8,700	5,85
150,0	6"			10	150	40	600	750,0	29,53	100	16,700	11,23
200,0	8"			10	150	40	600	1000,0	39,37	100	25,500	17,14
250,0	10"			10	150	40	600	1250,0	49,21	100	35,000	23,53
300,0	12"			10	150	40	600	1500,0	59,06	100	51,800	34,82

125

HOSE

// 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).

Built-in fittings.

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

Constant operation: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		↻		↻		↷		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
100,0	4"			10	150	40	600	600,0	23,62		5,850	3,94
150,0	6"			10	150	40	600	900,0	35,43		9,450	6,36
200,0	8"			10	150	40	600	1200,0	47,24		14,100	9,48
250,0	10"			10	150	40	600	1500,0	59,06		17,400	11,70
300,0	12"			10	150	40	600	1800,0	70,87		24,550	16,50

// 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). Available with swaged fittings.
Constant operation: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
76,0	3"	98,00	3,86	15	225	60	900	380,0	14,96	85	4,450	3,00
102,0	4"	128,00	5,04	15	225	60	900	510,0	20,08	85	7,660	5,15
152,0	6"	180,00	7,09	15	225	60	900	760,0	29,92	85	13,060	8,78

// 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 fittings.
 Also available: 60HAA 100% aromatic content • 60IAA biofuel.
Constant operation: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		↻		↻		⤴		⚠	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
100,0	4"			15	225	60	900	500,0	19,69	100	10,100	6,79
150,0	6"			15	225	60	900	750,0	29,53	100	17,600	11,83
200,0	8"			15	225	60	900	1000,0	39,37	100	28,400	19,09
250,0	10"			15	225	60	900	1250,0	49,21	100	38,500	25,88
300,0	12"			15	225	60	900	1500,0	59,06	100	54,500	36,63

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.

Max 55% aromatic content resistance.

Electrically continuous (discontinuous on request).

Built-in fittings.

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

Constant operation: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		↙		↘		↗		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
100,0	4"			15	225	60	900	600,0	23,62		6,580	4,43
150,0	6"			15	225	60	900	900,0	35,43		10,500	7,06
200,0	8"			15	225	60	900	1200,0	47,24		16,100	10,82
250,0	10"			15	225	60	900	1500,0	59,06		19,900	13,38
300,0	12"			15	225	60	900	1800,0	70,87		28,500	19,16

// 60PAA


**Fuel-oil S&D 20 bar (300 psi)
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).

Constant operation: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		↙		↘		↗		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
76,0	3"	92,00	3,62	20	300	60	900	380,0	14,96	85	3,210	2,16
102,0	4"	122,00	4,80	20	300	60	900	510,0	20,08	85	5,440	3,66
152,0	6"	176,00	6,93	20	300	60	900	760,0	29,92	85	10,930	7,35
203,0	8"	233,00	9,17	20	300	60	900	1000,0	39,37	85	17,740	11,93
254,0	10"	288,00	11,34	20	300	60	900	1270,0	50,00	85	25,920	17,42
300,0	12"	340,00	13,39	20	300	60	900	1500,0	59,06	85	35,940	24,16

// 64PAA



**Fuel-oil delivery 20 bar (300 psi)
exceeds EN 1765/L15**

Tube: black NBR.

Reinforcement: high tensile textile cords - antistatic wire.

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).

Constant operation: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		↻		↻		⌒		⌒	⌒	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
76,0	3"	92,00	3,62	20	300	60	900				3,310	2,23
102,0	4"	120,00	4,72	20	300	60	900				4,020	2,71
152,0	6"	172,00	6,77	20	300	60	900				6,990	4,70
203,0	8"	227,00	8,94	20	300	60	900				11,300	7,60



// FLOATING ROOF DRAIN



906AA	Roof drain 10 bar (150 psi).....	130
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// 906AA

**Roof drain 10 bar (150 psi)**

Tube: black conductive NBR.

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

Cover: black conductive NBR- abrasion, ozone and hydrocarbon resistant.

Application: rain water drainage in floating petrochemical storage tank roofs. 80% max aromatic content resistance. Available with swaged fittings.

Also available: 905AA with Viton cover 100% aromatic content.

Constant operation: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		↻		↻		⌒		⌒		⌒	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
152,0	6"	180,00	7,09	10	150	30	450	760,0	29,92	80	10,470	7,04	



// RIG SUPPLY



648AA	Rig supply soft wall - Fuel-liquid mud 20 bar (300 psi).....	132
615AA	Rig supply hard wall - Fuel-liquid mud 20 bar (300 psi).....	132
622AA	Rig supply hard wall - Fuel-liquid mud.....	133
748AA	Rig supply soft wall - Bulk material 20 bar (300 psi).....	134
715AA	Rig supply hard wall - Bulk material 20 bar (300 psi).....	134
448LI	Rig supply soft wall - Potable water 20 bar (300 psi) - FDA.....	135
415LI	Rig supply hard wall - Potable water 20 bar (300 psi) - FDA.....	135

// 648AA



Rig supply soft wall - Fuel-liquid mud 20 bar (300 psi)

Tube: black conductive NBR.

Reinforcement: high tensile textile cords - antistatic wire.

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

Application: fuel, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer.

Tensile end load resistance:

ID 2" 2.000 kg

ID 3" 4.000 kg

ID 4" 7.000 kg

ID ≥ 5" 10.000 kg

ABS Type approved hose assemblies.

Electrically continuous.

Constant operation: -30 °C +90 °C (-22 °F +194 °F)

↔		↔		↻		↻		⌒		⌒		⌒	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
76,0	3"	92,00	3,62	20	300	60	900				3,310	2,23	
102,0	4"	120,00	4,72	20	300	60	900				4,020	2,71	
152,0	6"	172,00	6,77	20	300	60	900				6,990	4,70	
203,0	8"	227,00	8,94	20	300	60	900				11,300	7,60	

// 615AA



Rig supply hard wall - Fuel-liquid mud 20 bar (300 psi)

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, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer.

Also available in self floating version. Reserve buoyancy calculated according to GMPHOM 2009 standard.

Tensile end load resistance:

ID 2" 2.000 kg

ID 3" 4.000 kg

ID 4" 7.000 kg

ID ≥ 5" 10.000 kg

ABS Type approved hose assemblies.

Electrically continuous.

Constant operation: -30 °C +90 °C (-22 °F +194 °F)

↔		↔		↻		↻		⌒		⌒		⌒	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
51,0	2"	67,00	2,64	20	300	80	1200	255,0	10,04	100	2,210	1,49	
76,0	3"	94,00	3,70	20	300	80	1200	380,0	14,96	90	3,740	2,52	
102,0	4"	122,00	4,80	20	300	80	1200	510,0	20,08	90	5,470	3,68	
127,0	5"	149,00	5,87	20	300	80	1200	635,0	25,00	90	7,760	5,22	
152,0	6"	176,00	6,93	20	300	80	1200	760,0	29,92	90	10,200	6,86	
203,0	8"	237,00	9,33	20	300	80	1200	1015,0	39,96	90	19,060	12,81	

Dimensions shown may be changed without prior notice

// 622AA

**Rig supply hard wall - Fuel-liquid mud****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, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer.

Specially designed for reeling applications and weak link couplings use.

Tensile end load resistance:

ID 3" 6.000 kg

ID ≥ 4" 10.000 kg

ABS Type approved hose assemblies.

Electrically continuous.

Constant operation: -30 °C +90 °C (-22 °F +194 °F)

↔		↔		↻		↻		⤴		⤵		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
76,0	3"	98,00	3,86	40	600	160	2320	380,0	14,96	90	4,870	3,28	
102,0	4"	128,00	5,04	40	600	160	2320	510,0	20,08	90	7,430	5,00	
127,0	5"	157,00	6,18	35	525	140	2000	635,0	25,00	90	11,150	7,50	

// 748AA



Rig supply soft wall - Bulk material 20 bar (300 psi)

Tube: black conductive NR - abrasion resistant.

Reinforcement: high tensile textile cords - antistatic wire.

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

Application: bulk material, barite and dry cement transfer from supply vessels to offshore platforms.

Tensile end load resistance:

ID 4" 6.000 kg

ID 5" 10.000 kg

ABS Type approved hose assemblies.

Electrically continuous.

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

↔		↔		↙		↘		⤴		⤵		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
102,0	4"	122,00	4,80	20	300	80	1200	612,0	24,09		4,460	3,00	
127,0	5"	149,00	5,87	20	300	80	1200	762,0	30,00		6,320	4,25	

// 715AA



Rig supply hard wall - Bulk material 20 bar (300 psi)

Tube: black conductive NR - abrasion resistant.

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

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

Application: bulk material, barite and dry cement transfer from supply vessels to offshore platforms.

Also available in self floating version. Reserve buoyancy calculated according to GMPHOM 2009 standard.

Tensile end load resistance:

ID 4" 7.000 kg

ID 5" 10.000 kg

ABS Type approved hose assemblies.

Electrically continuous.

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

↔		↔		↙		↘		⤴		⤵		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
102,0	4"	124,00	4,88	20	300	80	1200	510,0	20,08	90	6,060	4,08	
127,0	5"	151,00	5,94	20	300	80	1200	635,0	25,00	90	8,530	5,74	

Dimensions shown may be changed without prior notice

// 448LI


**Rig supply soft wall - Potable water 20 bar
(300 psi)
FDA**

Tube: white NR.

Reinforcement: high tensile textile cords.

Cover: orange NBR/PVC - abrasion, ozone and hydrocarbon resistant.

Application: potable water transfer from supply vessels to offshore platforms. Specially designed for reeling applications and weak link couplings use. Sterilize with 5% soda solution.

Tensile end load resistance:

ID 2" 2.000 kg

ID 3" 4.000 kg

ID 4" 7.000 kg

ABS Type approved hose assemblies.

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"	67,00	2,64	20	300	80	1200	306,0	12,05		1,880	1,27
76,0	3"	94,00	3,70	20	300	80	1200	456,0	17,95		2,950	1,99
102,0	4"	120,00	4,72	20	300	80	1200	612,0	24,09		3,980	2,68

135

HOSE

// 415LI


**Rig supply hard wall - Potable water 20 bar
(300 psi)
FDA**

Tube: white NR.

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

Cover: orange NBR/PVC - abrasion, ozone and hydrocarbon resistant.

Application: potable water transfer from supply vessels to offshore platforms. Sterilize with 5% soda solution.

Also available in self floating version.

Reserve buoyancy calculated according to GMPHOM 2009 standard.

Tensile end load resistance:

ID 2" 2.000 kg

ID 3" 4.000 kg

ID 4" 7.000 kg

ABS Type approved hose assemblies.

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"	67,00	2,64	20	300	80	1200	255,0	10,04	100	2,230	1,50
76,0	3"	94,00	3,70	20	300	80	1200	380,0	14,96	90	3,800	2,56
102,0	4"	122,00	4,80	20	300	80	1200	510,0	20,08	90	5,580	3,76

// COMPLETE HOSE & FITTING SOLUTIONS

Hose	Structure	Self Floating Version	ID range in	WP bar	Safety Factor
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FUEL, LIQUID MUD, SEA WATER, BULK MATERIAL

	648AA	Soft Wall		2" 3" 4" 5" 6"	20	4:1
	615AA	Hard Wall		2" 3" 4" 5" 6" 8"	20	4:1
	622AA (formerly 652AAZ)	Hard Wall		3" 4" 5"	40 bar up to 4" ID 35 bar ID 5"	4:1

BULK MATERIAL

	748AA	Soft Wall		4" 5"	20	4:1
	715AA	Hard Wall		4" 5"	20	4:1

POTABLE WATER

	448LI	Soft Wall		2" 3" 4"	20	4:1
	415LI	Hard Wall		2" 3" 4"	20	4:1

Dimensions shown may be changed without prior notice

Tensile end Load Resistance kg	Working Temperature	Flammability test	ABS Type Approved Fittings				Certification
			NPT Male	NPT Male for Hook hose lifter	Fixed Flange ASA 150	Swivel Flange ASA 150	

ID 2" ID 3" ID 4" ID ≥ 5"	2.000 Kg 4.000 Kg 7.000 Kg 10.000 Kg	-30 / +90 °C	EN 1762 - Annex A	●	●	●	●	ABS
ID 2" ID 3" ID 4" ID ≥ 5"	2.000 Kg 4.000 Kg 7.000 Kg 10.000 Kg	-30 / +90 °C	EN 1762 - Annex A	●	●	●	●	ABS
ID 3" ID ≥ 4"	6.000 Kg 10.000 Kg	-30 / +90 °C	EN 1762 - Annex A	●	●	●	●	ABS

ID 4" ID ≥ 5"	7.000 Kg 10.000 Kg	-30 / +80 °C	EN 1762 - Annex A	●	●	●	●	ABS
ID 4" ID ≥ 5"	7.000 Kg 10.000 Kg	-30 / +80 °C	EN 1762 - Annex A	●	●	●	●	ABS

ID 2" ID 3" ID 4"	2.000 Kg 4.000 Kg 7.000 Kg	-30 / +80 °C		●	●	●	●	ABS FDA
ID 2" ID 3" ID 4"	2.000 Kg 4.000 Kg 7.000 Kg	-30 / +80 °C		●	●	●	●	ABS FDA





151AA	Compressed air 20 bar (300 psi) - Heavy duty mining.....	140
151AK	Compressed air 20 bar (300 psi) - Heavy duty mining.....	140
157AK	Compressed air 27 bar (400 psi) - Heavy duty mining.....	141
189AK	Air-water delivery - PVC - FRAS - AS 2660/A - AS/NZS - 2554/A.....	141
146AK	Compressed air-water 70 bar (1000 psi) - Steel braided.....	142
141AA	Compressed air 40 bar (600 psi) - Steel braided - FRAS - exceeds AS 2660/B.....	142
289GG	Mine dewatering - PVC - Lay flat.....	143
240AA	Air-water delivery 20 bar (300 psi) - FRAS - exceeds AS 2660/B.....	143
241AA	Air-water delivery 35 bar (525 psi) - AS 2660/B.....	143
225AA	General purpose S&D 10 bar (150 psi) - FRAS - exceeds AS 2660/C.....	144
245AA	General purpose delivery & light suction 27 bar (400 psi) - Crush resistant - FRAS - exceeds AS 2660/B.....	144
756AA	Gunite 14 bar (200 psi) - FRAS - exceeds AS 2660/C.....	145
765AA	Stone dust 7 bar (100 psi) - FRAS.....	145
706AA	Abrasive slurry S&D 10 bar (150 psi) - Muff couplings.....	145
776AA	Mineral sampling 35 bar (525 psi).....	146
776HA	Mineral sampling 35 bar (525 psi).....	146
714HA	Drill cutting suction 5 bar (75 psi) - Corrugated.....	146
612AA	Nitro blast handling 20 bar (300 psi).....	147
964AA	Cable protection - FRAS - AS 1802 - AS 2660.....	147

// 151AA



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

Tube: black SBR/NBR - oil mist resistant.
Reinforcement: high tensile textile cords.
Cover: black SBR - abrasion and ozone resistant.
Application: compressed air designed for heavy duty mining 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	
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				2,190	1,48	

// 151AK



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

Tube: black SBR/NBR - oil mist resistant.
Reinforcement: high 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)

↔		↔		↙		↘		⤴		⤵		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	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	

Dimensions shown may be changed without prior notice

// 157AK

**Compressed air 27 bar (400 psi) - Heavy duty mining****Tube:** black SBR/NBR - oil mist resistant.**Reinforcement:** high 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)

↔		↔		↙		↘		↗		⚡	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	29,00	1,14	27	400	81	1200	190,0	7,48		0,550	0,37
25,0	1"	35,00	1,38	27	400	81	1200	250,0	9,84		0,700	0,48
32,0	1 1/4"	44,00	1,73	27	400	81	1200	320,0	12,60		0,920	0,62
38,0	1 1/2"	50,00	1,97	27	400	81	1200	380,0	14,96		1,050	0,71
51,0	2"	65,00	2,56	27	400	81	1200	510,0	20,08		1,690	1,14

// 189AK

**Air-water delivery - PVC - FRAS AS 2660/A - AS/NZS - 2554/A****Tube:** black antistatic PVC.**Reinforcement:** high tensile textile cords.**Cover:** yellow ribbed PVC with longitudinal antistatic stripes - abrasion and ozone resistant.**Application:** compressed air in underground mining applications. Specially designed for roof bolting applications.**Constant operation:** -5 °C +60 °C (+23 °F +140 °F)

↔		↔		↙		↘		↗		⚡	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	21,00	0,83	20	300	70	1000	104,0	4,09		0,285	0,20
19,0	3/4"	29,00	1,14	20	300	70	1000	152,0	5,98		0,500	0,34
25,0	1"	35,00	1,38	35	525	70	1000	200,0	7,87		0,640	0,44
38,0	1 1/2"	48,00	1,89	20	300	70	1000	304,0	11,97		0,960	0,65
50,0	2"	63,00	2,48	20	300	70	1000	400,0	15,75		1,415	0,96

// 146AK



Compressed air-water 70 bar (1000 psi) - Steel braided

Tube: black SBR/NBR - oil mist resistant.

Reinforcement: one or two high tensile steel wire braids.

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

Application: high pressure compressed air and water in heavy duty mining where long service life and maximum safety is required. Ideal for water spraying in mining dust control operation.

Constant operation: -30 °C +90 °C (-22 °F +200 °F)

↔		↔		↻		↻		⌒		⌘	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
19,0	3/4"	28,00	1,10	70	1000	280	4000	95,0	3,74		0,600	0,41
25,0	1"	34,00	1,34	70	1000	280	4000	125,0	4,92		0,790	0,54
32,0	1 1/4"	41,00	1,61	70	1000	280	4000	160,0	6,30		1,030	0,70
38,0	1 1/2"	49,00	1,93	70	1000	280	4000	190,0	7,48		1,600	1,08
51,0	2"	63,00	2,48	70	1000	280	4000	255,0	10,04		2,180	1,47

// 141AA



Compressed air 40 bar (600 psi) - Steel braided - FRAS exceeds AS 2660/B

Tube: black conductive SBR/NR - oil mist resistant.

Reinforcement: high tensile steel wire braids.

Cover: black conductive SBR - abrasion, ozone and fire resistant.

Application: high pressure compressed air and water in heavy duty "long wall" mining where long service life and maximum safety is required.

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

↔		↔		↻		↻		⌒		⌘	⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
76,0	3"	90,00	3,54	40	600	120	1750	380,0	14,96		3,040	2,05
102,0	4"	118,00	4,65	40	600	120	1750	510,0	20,08		3,990	2,69

Dimensions shown may be changed without prior notice

// 289GG

**Mine dewatering - PVC - Lay flat****Tube:** green PVC.**Reinforcement:** high tensile textile cords.**Cover:** green PVC - abrasion, ozone and cut resistant.**Application:** lay flat water discharge for heavy duty applications. Specially designed for mine and construction sites dewatering. High end load resistance.**Constant operation:** -10 °C +60 °C (+14 °F +140 °F)

↔		↔		↙		↘		↗		⚡		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
102,0	4"	113,00	4,45	14	200	48	720				1,600	1,08	
157,0	6 3/16"	167,00	6,57	10	150	40	600				3,180	2,14	
208,0	8 3/16"	220,00	8,66	10	150	40	600				4,970	3,35	

// 240AA

**Air-water delivery 20 bar (300 psi) - FRAS exceeds AS 2660/B****Tube:** black conductive SBR/NR.**Reinforcement:** high tensile textile cords.**Cover:** black conductive SBR - abrasion, ozone and fire resistant.**Application:** air, water and stone dust delivery in underground mines.**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↙		↘		↗		⚡		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
13,0	1/2"	23,00	0,91	20	300	80	1200	78,0	3,07		0,350	0,24	
19,0	3/4"	31,00	1,22	20	300	80	1200	114,0	4,49		0,580	0,39	
25,0	1"	37,00	1,46	20	300	80	1200	150,0	5,91		0,750	0,51	
32,0	1 1/4"	46,00	1,81	20	300	80	1200	192,0	7,56		1,000	0,68	
38,0	1 1/2"	52,00	2,05	20	300	80	1200	228,0	8,98		1,130	0,76	
51,0	2"	67,00	2,64	20	300	80	1200	306,0	12,05		1,600	1,08	
63,0	2 1/2"	79,00	3,11	20	300	80	1200	378,0	14,88		2,220	1,50	
76,0	3"	92,00	3,62	20	300	70	1000	456,0	17,95		2,620	1,77	
102,0	4"	118,00	4,65	20	300	70	1000	612,0	24,09		3,430	2,31	

// 241AA

**Air-water delivery 35 bar (525 psi) AS 2660/B****Tube:** black conductive SBR/NR.**Reinforcement:** high tensile textile cords.**Cover:** black conductive SBR - abrasion, ozone and fire resistant.**Application:** air, water and stone dust delivery in underground mines.**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"	31,00	1,22	35	525	85	1275	114,0	4,49		0,580	0,39	
25,0	1"	37,00	1,46	35	525	85	1275	150,0	5,91		0,750	0,51	

// 225AA



General purpose S&D 10 bar (150 psi) - FRAS exceeds AS 2660/C

Tube: black conductive SBR/NR.

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

Cover: black conductive SBR - abrasion, ozone and fire resistant.

Application: water and stone dust suction and delivery. Also suitable for methane drainage/extraction in underground coal mines.

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	40	600	204,0	8,03	100	1,310	0,89	
76,0	3"	89,00	3,50	10	150	40	600	304,0	11,97	90	2,690	1,81	
102,0	4"	116,00	4,57	10	150	40	600	408,0	16,06	90	4,080	2,75	
152,0	6"	170,00	6,69	10	150	40	600	760,0	29,92	80	7,350	4,94	

// 245AA



General purpose delivery & light suction 27 bar (400 psi) - Crush resistant - FRAS exceeds AS 2660/B

Tube: black conductive SBR/NR.

Reinforcement: high tensile textile braids.

Cover: black conductive SBR - abrasion, ozone and fire resistant.

Application: air and water delivery-light suction. Special heavy wall braided construction for vacuum, crush and kink resistance. Ideal for methane drainage/extraction in underground coal mines. Vacuum resistance 60%.

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"	73,00	2,87	27	400	81	1200			60	2,450	1,65	

Dimensions shown may be changed without prior notice

// 756AA



Gunite 14 bar (200 psi) - FRAS exceeds AS 2660/C

Tube: black conductive NR - abrasion resistant.
Reinforcement: high tensile textile cords.
Cover: black conductive SBR - abrasion, ozone and fire resistant.
Application: gunite.
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"	62,00	2,44	14	200	56	800				2,200	1,48
51,0	2"	75,00	2,95	14	200	56	800				2,810	1,89

// 765AA



Stone dust 7 bar (100 psi) - FRAS

Tube: black conductive SBR/NR - abrasion resistant.
Reinforcement: high tensile textile cords.
Cover: black conductive SBR - abrasion, ozone and fire resistant.
Application: "Stone dusting" in underground mines. Also suitable for air and water 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
32,0	1 1/4"	46,00	1,81	7	100	28	400				1,010	0,68
51,0	2"	65,00	2,56	7	100	28	400				1,510	1,02

// 706AA



Abrasive slurry S&D 10 bar (150 psi) - 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 SBR/NR - abrasion and ozone resistant.
Application: bulk material and abrasive slurries suction and delivery in heavy duty mining. Designed for muff coupling use.
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"	69,00	2,72	10	150	30	450	204,0	8,03	90	2,290	1,54
76,0	3"	100,00	3,94	10	150	30	450	304,0	11,97	90	4,350	2,93
102,0	4"	126,00	4,96	10	150	30	450	408,0	16,06	90	5,750	3,87
127,0	5"	155,00	6,10	10	150	30	450	635,0	25,00	80	8,370	5,63
152,0	6"	182,00	7,17	10	150	25	375	760,0	29,92	80	10,840	7,29
203,0	8"	235,00	9,25	10	150	25	375	1015,0	39,96	70	16,010	10,76
254,0	10"	286,00	11,26	10	150	25	375	1270,0	50,00	60	20,180	13,57
305,0	12"	343,00	13,50	10	150	25	375	1525,0	60,04	60	29,480	19,82

// 776AA



Mineral sampling 35 bar (525 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: mineral recovery in sampling 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"	77,00	3,03	35	525	105	1530	204,0	8,03	100	3,000	2,02
76,0	3"	106,00	4,17	35	525	105	1530	304,0	11,97	90	4,950	3,33
102,0	4"	134,00	5,28	35	525	105	1530	408,0	16,06	90	7,320	4,92

// 776HA



Mineral sampling 35 bar (525 psi)

Tube: Red NR - abrasion resistant.

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

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

Application: mineral recovery in sampling 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
76,0	3"	106,00	4,17	35	525	105	1530	304,0	11,97	90	4,890	3,29

// 714HA



Drill cutting suction 5 bar (75 psi) - Corrugated

Tube: Red 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. Specially designed for drill cutting suction in mobile drilling rigs. Corrugated construction for maximum flexibility.

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"	61,00	2,40	5	75	15	225	127,0	5,00	100	1,190	0,80
63,0	2 1/2"	75,00	2,95	5	75	15	225	157,0	6,18	90	1,860	1,26
76,0	3"	90,00	3,54	5	75	15	225	190,0	7,48	90	2,560	1,73
102,0	4"	116,00	4,57	5	75	15	225	255,0	10,04	90	3,580	2,41
115,0	4 1/2"	129,00	5,08	5	75	15	225	287,0	11,30	90	4,070	2,74
127,0	5"	141,00	5,55	5	75	15	225	318,0	12,52	80	4,710	3,17
152,0	6"	166,00	6,54	5	75	15	225	380,0	14,96	80	5,580	3,76

Dimensions shown may be changed without prior notice

// 612AA

**Nitro blast handling 20 bar (300 psi)****Tube:** black conductive NBR - abrasion resistant.**Reinforcement:** high tensile textile cords with embedded steel helix wire.**Cover:** black conductive CR - abrasion, ozone, hydrocarbon and fire resistant.**Application:** explosive handling in mobile delivery units. Specially designed for heavy duty reeling 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"	71,00	2,80	20	300	60	900	255,0	10,04	70	2,800	1,89	
63,0	2 1/2"	83,00	3,27	20	300	60	900	315,0	12,40	70	2,980	2,01	

// 964AA

**Cable protection - FRAS
AS 1802 - AS 2660****Tube:** black conductive SBR/NR.**Reinforcement:** high tensile textile cords.**Cover:** black conductive SBR - abrasion, ozone and fire resistant.**Application:** cable protection in underground mines. Also suitable for light duty air and water delivery max 5 bar (75 psi).**Constant operation:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		↻		↻		⤴		⤵		⚖	
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft	
13,0	1/2"	21,00	0,83	5	75	15	225				0,240	0,17	
16,0	5/8"	24,00	0,94	5	75	15	225				0,280	0,19	
19,0	3/4"	29,00	1,14	5	75	15	225				0,410	0,28	
25,0	1"	35,00	1,38	5	75	15	225				0,510	0,35	
32,0	1 1/4"	42,00	1,65	5	75	15	225				0,630	0,43	
38,0	1 1/2"	48,00	1,89	5	75	15	225				0,730	0,50	
45,0	1 3/4"	55,00	2,17	5	75	15	225				0,850	0,58	
51,0	2"	61,00	2,40	5	75	15	225				0,960	0,65	