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SYMBOL

	Internal Diameter		Minimum Bend Radius= 2 x Internal Diameter		High performance product
	Outside Diameter		Minimum Bend Radius= 3 x Internal Diameter		Extruded tube
	Maximum Working Pressure		Premium tube abrasion resistance		2004/1935 EC 2006/2023 EC
	Minimum Bend Radius		High tube abrasion resistance		Phthalate Free
	Vacuum		Low temperature resistance		DNV approved
	Weight		High temperature resistance		IANESCO approved
			Oil resistance		LLOYD'S approved
			Electrical resistance along the conductive layers $\leq 10^6 \Omega/\text{length}$		MSHA approved
			Electrical resistance through the hose wall $\leq 10^9 \Omega$		

SALES AREA

	North America		South Africa
	Latin America		Asia Pacific
	North Europe		Australia
	Center Europe, Middle East, North Africa		

MANDREL

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60NAA	H.109
60PAA	H.97
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612AA	H.126
614AA	H.100
615AA	H.115
616AA	H.106
619AA	H.96
620AA	H.96
629AA	H.93
634AA	H.101
642AA	H.114
644AA	H.101
646AA	H.114
648AA	H.114
64AAA	H.108
64DAA	H.109
64PAA	H.97
650AA	H.91
650AB	H.91
650AH	H.91
652AA	H.115
653AA	H.105
655AA	H.96
656AA	H.100
658AA	H.99
659AA	H.99
660AA	H.126
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720LG	H.65
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754AA	H.76
756AA	H.124
757AA	H.74
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185AH	H.15
185AK	H.15
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284AH	H.26
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680AA	H.90
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268LL	H.34
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DUCTING & VENTILATION

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FITTINGS

Chapter CLAMPS & FERRULES / Clamps F.91-102

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
20	13/16					20	0,75	50	0,130	0,087
25	1					25	1,00	50	0,170	0,115
32	1 1/4					32	1,25	50	0,230	0,155
35	1 3/8					35	1,50	50	0,250	0,170
40	1 9/16					40	1,50	40	0,300	0,200
45	1 3/4					45	1,75	40	0,350	0,235
51	2					51	2,00	40	0,440	0,300
63	2 1/2					63	2,50	40	0,560	0,380
70	2 3/4					70	2,75	40	0,630	0,425
76	3					76	3,00	40	0,700	0,475
80	3 1/8					80	3,00	40	0,760	0,515
90	3 1/2					90	3,50	40	0,850	0,575
102	4					102	4,00	40	0,990	0,670
110	4 5/16					110	4,25	40	1,100	0,740
120	4 3/4					120	4,75	40	1,200	0,810
127	5					127	5,00	40	1,270	0,855
140	5 1/2					140	5,50	35	1,450	0,975
152	6					152	6,00	35	1,700	1,145
160	6 5/16					160	6,25	35	1,850	1,245
180	7 1/16					180	7,00	30	2,200	1,480
203	8					203	8,00	30	2,450	1,650
254	10					254	10,00	10	3,600	2,420
305	12					305	12,00	10	4,500	3,025

NA	LA	NEU	EMEA	SA	AP	AU
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161BL Air ducting UL 94 V2

Construction: Grey PVC - abrasion and ozone resistant
Reinforcement: White shock resistant rigid PVC
Use: Air, gas, fumes extraction. Air conditioning-ventilation
Temperature: -10 °C +60 °C (+14 °F +140 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
20	13/16					20	0,75	50	0,180	0,120
25	1					25	1,00	50	0,230	0,155
28	1 1/8					28	1,25	50	0,250	0,170
32	1 1/4					32	1,25	50	0,300	0,200
38	1 1/2					38	1,50	50	0,380	0,255
51	2					102	4,00	50	0,700	0,475

NA	LA	NEU	EMEA	SA	AP	AU
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163AL General purpose

Construction: Black PVC - abrasion and ozone resistant
Reinforcement: White shock resistant rigid PVC
Use: General purpose designed for gas vent, air seeder and marine bilge pump applications - ID 51 mm according to AS 1425/2.22
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⌚		⌒		⌘		♁	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
40	1 9/16					20	0,75		0,110	0,075	
51	2					25	1,00		0,135	0,095	
63	2 1/2					32	1,25		0,170	0,115	
70	2 3/4					35	1,50		0,185	0,125	
76	3					40	1,50		0,200	0,135	
80	3 1/8					40	1,50		0,210	0,145	
90	3 1/2					45	1,75		0,240	0,165	
102	4					50	2,00		0,280	0,190	
120	4 3/4					60	2,50		0,325	0,220	
127	5					63	2,50		0,345	0,235	
140	5 1/2					70	2,75		0,380	0,260	
152	6					75	3,00		0,410	0,280	
160	6 5/16					80	3,00		0,425	0,290	
180	7 1/16					90	3,50		0,475	0,320	
203	8					100	4,00		0,535	0,360	
254	10					125	5,00		0,845	0,570	
305	12					150	6,00		1,010	0,680	

NA	LA	NEU	EMEA	SA	AP	AU
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174BB

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

Construction: Textile fabric coated with flame resistant PVC

Reinforcement: Steel helix wire

Use: Hot air, gas, fumes extraction. Air conditioning-ventilation

Temperature: -20 °C +100 °C (-4 °F +212 °F)

↔		↔		⌚		⌒		⌘		♁	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
40	1 9/16					34	1,50	20	0,175	0,120	
51	2					43	1,75	20	0,225	0,150	
63	2 1/2					54	2,25	20	0,275	0,185	
70	2 3/4					60	2,50	20	0,425	0,285	
76	3					65	2,50	20	0,460	0,310	
80	3 1/8					68	2,75	20	0,485	0,330	
90	3 1/2					77	3,00	20	0,550	0,370	
102	4					85	3,25	15	0,580	0,390	
110	4 5/16					94	3,75	15	0,615	0,415	
120	4 3/4					102	4,00	10	0,680	0,460	
127	5					108	4,25	10	0,765	0,515	
140	5 1/2					119	4,75	10	0,860	0,580	
152	6					129	5,00	10	0,930	0,625	
160	6 5/16					136	5,25	10	1,025	0,690	
180	7 1/16					153	6,00	5	1,310	0,885	
203	8					173	6,75	5	1,485	1,000	
254	10					216	8,50	5	1,940	1,305	
305	12					259	10,25	5	2,390	1,610	
355	14					303	12,00	5	2,790	1,875	
406	16					345	14,00	5	3,195	2,150	

NA	LA	NEU	EMEA	SA	AP	AU
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178AA

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

Construction: Black EPDM/PP fully recyclable and halogens/
phthalates free

Reinforcement: Steel helix wire

Use: Hot air, gas, fumes extraction-ventilation where high
temperature resistance is required

Temperature: -40 °C +120 °C (-40 °F +248 °F)

hose

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
40	1 9/16					44	1,75	35	0,170	0,115
45	1 3/4					49	2,00	35	0,190	0,130
51	2					55	2,25	25	0,220	0,150
63	2 1/2					67	2,75	25	0,270	0,180
70	2 3/4					74	3,00	25	0,330	0,225
76	3					80	3,00	25	0,350	0,235
80	3 1/8					84	3,25	20	0,370	0,250
90	3 1/2					94	3,75	20	0,420	0,285
102	4					106	4,25	10	0,470	0,320
110	4 5/16					114	4,50	10	0,510	0,345
120	4 3/4					124	5,00	10	0,550	0,370
127	5					132	5,25	10	0,780	0,525
140	5 1/2					145	5,75	10	0,860	0,580
152	6					157	6,25	10	0,930	0,625
160	6 5/16					165	6,50	6	0,980	0,660
180	7 1/16					185	7,25	6	1,100	0,740
203	8					209	8,25	6	1,240	0,835
254	10					260	10,25	2	1,740	1,170
305	12					311	12,25	2	2,090	1,405
355	14					362	14,25	2	2,440	1,640
406	16					412	16,25	2	2,780	1,870

NA LA **NEU** EMEA SA AP AU



17100

Air ducting - polyurethane - gauge 0,4 mm

Construction: Transparent polyurethane - abrasion and ozone resistant

Reinforcement: Copper plated steel helix wire

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

Temperature: -40 °C +85 °C (-40 °F +185 °F)

fittings

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
40	1 9/16					46	1,75	55	0,310	0,210
51	2					57	2,25	40	0,390	0,265
63	2 1/2					69	2,75	40	0,480	0,325
76	3					82	3,25	40	0,560	0,380
80	3 1/8					88	3,50	35	0,610	0,410
102	4					109	4,25	30	0,910	0,615
120	4 3/4					127	5,00	30	1,070	0,720
127	5					134	5,25	30	1,130	0,760
140	5 1/2					147	5,75	30	1,240	0,835
152	6					160	6,25	30	1,440	0,970
160	6 5/16					168	6,75	25	1,520	1,025
180	7 1/16					188	7,50	25	1,710	1,150
203	8					210	8,25	25	1,920	1,295
254	10					262	10,25	15	2,400	1,615
305	12					313	12,25	15	2,870	1,930
315	12 3/8					323	12,75	15	2,970	2,000

NA LA **NEU** EMEA SA AP AU



17200

Air ducting - polyurethane - gauge 0,8 mm

Construction: Transparent polyurethane - abrasion and ozone resistant

Reinforcement: Copper plated steel helix wire

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

Temperature: -40 °C +85 °C (-40 °F +185 °F)

appendix

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2					59	2,25	60	0,630	0,425	
63	2 1/2					71	2,75	60	0,770	0,520	
76	3					86	3,50	60	0,930	0,625	
80	3 1/8					90	3,50	50	0,980	0,660	
102	4					112	4,50	40	1,240	0,835	
152	6					162	6,50	40	1,840	1,240	
203	8					213	8,50	30	2,440	1,640	
254	10					265	10,50	25	3,940	2,650	
305	12					316	12,50	25	4,720	3,175	
355	14					373	14,75	25	5,500	3,700	

NA LA **NEU** EMEA SA AP AU



17300

Air ducting - polyurethane - gauge 1,2 mm

Construction: Transparent polyurethane - abrasion and ozone resistant

Reinforcement: Copper plated steel helix wire

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

Temperature: -40 °C +85 °C (-40 °F +185 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
40	1 9/16					52	2,00	75	0,580	0,390	
51	2					63	2,50	65	0,730	0,495	
63	2 1/2					75	3,00	65	0,890	0,600	
76	3					88	3,50	65	1,190	0,800	
102	4					114	4,50	45	1,580	1,065	
127	5					139	5,50	45	1,950	1,315	
152	6					164	6,50	45	2,330	1,570	

NA LA **NEU** EMEA SA AP AU



17700

Air ducting - polyurethane - gauge 1,7 mm

Construction: Transparent polyurethane - abrasion and ozone resistant

Reinforcement: Copper plated steel helix wire

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

Temperature: -40 °C +85 °C (-40 °F +185 °F)



GAS & WELDING

HOSE

081AE	Oxygen 20 bar (300 psi)	H.10
081AH	Acetylene 20 bar (300 psi).....	H.10
088AI	LPG-natural gas 25 bar (375 psi)	H.10
076AE	Oxygen welding 20 bar (300 psi) - EN ISO 3821	H.11
076AH	Acetylene welding 20 bar (300 psi) - EN ISO 3821	H.11
076AI	LPG welding 20 bar (300 psi) - EN ISO 3821	H.11
076EH	Oxygen/acetylene twin welding 20 bar (300 psi) EN ISO 3821	H.11
076EI	Oxygen/LPG twin welding 20 bar (300 psi) EN ISO 3821	H.11
071AI	LPG welding 12 bar (180 psi) - AS 1335	H.12
071EH	Oxygen/acetylene twin welding 12 bar (180 psi) AS 1335	H.12
071EI	Oxygen/LPG twin welding 12 bar (180 psi) AS 1335	H.12



↔		↔		⏴		⤴		⏴		⏴	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	13	0,51	20	300	48	2,00		0,145	0,097	
8	5/16	15	0,59	20	300	64	2,50		0,175	0,120	
10	3/8	17	0,67	20	300	80	3,00		0,210	0,140	
NA		LA		NEU		EMEA		SA		AP	
AU											



081AE Oxygen 20 bar (300 psi)

Tube: Black synthetic elastomer
Reinforcement: High tensile textile cords
Cover: Blue synthetic elastomer - abrasion and ozone resistant
Use: Oxygen
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⏴		⤴		⏴		⏴	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	13	0,51	20	300	48	2,00		0,145	0,097	
8	5/16	15	0,59	20	300	64	2,50		0,175	0,120	
10	3/8	17	0,67	20	300	80	3,00		0,210	0,140	
NA		LA		NEU		EMEA		SA		AP	
AU											



081AH Acetylene 20 bar (300 psi)

Tube: Black synthetic elastomer
Reinforcement: High tensile textile cords
Cover: Red synthetic elastomer - abrasion and ozone resistant
Use: Acetylene
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⏴		⤴		⏴		⏴	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
8	5/16	15	0,59	25	375	64	2,50		0,170	0,115	
10	3/8	17	0,67	25	375	80	3,00		0,200	0,135	
NA		LA		NEU		EMEA		SA		AP	
AU											



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
Use: LPG-natural gas
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⌚		⤴		⌘		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	13	0,51	20	300	60	2,50		0,150	0,100	
8	5/16	15	0,59	20	300	80	3,00		0,180	0,120	
10	3/8	17	0,67	20	300	100	4,00		0,210	0,140	
NA		LA		NEU		EMEA		SA		AP	
										AU	



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
Use: Oxygen welding
Safety factor: 3:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⌚		⤴		⌘		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	13	0,51	20	300	60	2,50		0,150	0,100	
8	5/16	15	0,59	20	300	80	3,00		0,180	0,120	
10	3/8	17	0,67	20	300	100	4,00		0,210	0,140	
NA		LA		NEU		EMEA		SA		AP	
										AU	



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
Use: Acetylene welding
Safety factor: 3:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⌚		⤴		⌘		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	13	0,51	20	300	60	2,50		0,150	0,100	
8	5/16	15	0,59	20	300	80	3,00		0,180	0,120	
10	3/8	17	0,67	20	300	100	4,00		0,210	0,140	
NA		LA		NEU		EMEA		SA		AP	
										AU	



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
Use: LPG welding
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌘		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	13	0,51	20	300	60	2,50		0,300	0,200	
6+9	1/4+23/64	16	0,63	20	300	100	3,50		0,420	0,285	
8	5/16	15	0,59	20	300	80	3,00		0,360	0,245	
10	3/8	17	0,67	20	300	100	4,00		0,420	0,285	
NA		LA		NEU		EMEA		SA		AP	
										AU	



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
Use: Oxygen/Acetylene twin welding
Safety factor: 3:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⌚		⤴		⌘		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
8	5/16	15	0,59	20	300	80	3,00		0,360	0,245	
NA		LA		NEU		EMEA		SA		AP	
										AU	



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
Use: Oxygen/LPG twin welding
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
5	3/16	12	0,47	12	180	50	2,00		0,140	0,095	
NA	LA	NEU	EMEA	SA	AP	AU					



071AI
LPG welding 12 bar (180 psi)
AS 1335

Tube: Black NBR
Reinforcement: High tensile textile cords
Cover: Orange SBR/EPDM - abrasion and ozone resistant
Use: LPG welding
Safety factor: 4:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
5	3/16	12	0,47	12	180	50	2,00		0,280	0,190	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Oxygen/Acetylene twin welding
Safety factor: 3:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
5	3/16	12	0,47	12	180	50	2,00		0,280	0,190	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Oxygen/LPG twin welding
Safety factor: 4:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

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appendix



COMPRESSED AIR

HOSE

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HYDRAULIC FITTINGS - AG Hydraulic catalogue

↔		↔		⊕	↷		⊕		⊕		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	10	0,39	20	300	24	1,00		0,065	0,044	
8	5/16	12	0,47	20	300	32	1,25		0,080	0,055	
10	3/8	15	0,59	20	300	40	1,50		0,110	0,075	
13	1/2	19	0,75	20	300	52	2,00		0,180	0,120	
16	5/8	23	0,91	20	300	64	2,50		0,260	0,175	
19	3/4	26	1,02	20	300	76	3,00		0,300	0,200	
25	1	33	1,30	20	300	100	4,00		0,440	0,300	
NA		LA		NEU		EMEA		SA		AP AU	



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

Use: Compressed air. Specially designed for pneumatic tools and paint spray

Safety factor: 3:1

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

↔		↔		⊕	↷		⊕		⊕		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
10	3/8	16	0,63	20	300	80	3,00		0,170	0,115	
13	1/2	19	0,75	20	300	104	4,00		0,205	0,140	
19	3/4	27	1,06	20	300	152	6,00		0,370	0,250	
25	1	34	1,34	20	300	200	8,00		0,530	0,360	
NA		LA		NEU		EMEA		SA		AP AU	



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

Use: Compressed air and general industrial applications.

Also suitable for crop spraying of fertilizers, pesticides and weed killers

Safety factor: 3,2:1

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

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	19	0,75	20	300	104	4,00		0,210	0,140	
19	3/4	27	1,06	20	300	152	6,00		0,410	0,275	
25	1	34	1,34	20	300	200	8,00		0,580	0,390	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Compressed air and general industrial applications.
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	12	0,51	20	300	48	2,00		0,120	0,085	
8	5/16	14	0,59	20	300	64	2,50		0,140	0,095	
10	3/8	17	0,67	20	300	80	3,00		0,205	0,140	
13	1/2	21	0,83	20	300	104	4,00		0,280	0,190	
16	5/8	24	0,98	20	300	128	5,00		0,355	0,240	
19	3/4	28	1,10	20	300	152	6,00		0,460	0,310	
25	1	35	1,38	20	300	200	8,00		0,640	0,435	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Compressed air and general industrial applications
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	12	0,51	20	300	48	2,00		0,120	0,085	
8	5/16	14	0,59	20	300	64	2,50		0,140	0,095	
10	3/8	17	0,67	20	300	80	3,00		0,210	0,140	
13	1/2	21	0,83	20	300	104	4,00		0,285	0,190	
16	5/8	24	0,98	20	300	128	5,00		0,355	0,240	
19	3/4	28	1,10	20	300	152	6,00		0,465	0,315	
25	1	35	1,38	20	300	200	8,00		0,640	0,435	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Compressed air and general industrial applications
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	21	0,83	20	300	104	4,00		0,285	0,190	
19	3/4	28	1,10	20	300	152	6,00		0,465	0,315	
25	1	35	1,38	20	300	200	8,00		0,640	0,435	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Compressed air and general industrial applications
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	14	0,55	20	300	48	2,00		0,185	0,125	
8	5/16	17	0,67	20	300	64	2,50		0,260	0,175	
10	3/8	19	0,75	20	300	80	3,00		0,300	0,200	
13	1/2	23	0,91	20	300	104	4,00		0,415	0,280	
19	3/4	30	1,18	20	300	152	6,00		0,575	0,390	
25	1	37	1,46	20	300	200	8,00		0,775	0,525	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Compressed air and general industrial applications
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⏰	⤴	⤵	⏸	⏸	⏸	⏸
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
6	1/4	12	0,51	20	300	48	2,00		0,160	0,110
8	5/16	14	0,59	20	300	64	2,50		0,190	0,130
10	3/8	17	0,67	20	300	80	3,00		0,220	0,150
13	1/2	21	0,83	20	300	104	4,00		0,310	0,210
16	5/8	24	0,98	20	300	128	5,00		0,430	0,290
19	3/4	28	1,14	20	300	152	6,00		0,550	0,370
25	1	35	1,38	20	300	200	8,00		0,690	0,465
NA		LA		NEU		EMEA	SA	AP	AU	



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
Use: Compressed air and general industrial applications
Safety factor: 3:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⏰	⤴	⤵	⏸	⏸	⏸	⏸
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
6	1/4	16	0,63	20	300	48	2,00		0,240	0,160
8	5/16	16	0,63	20	300	64	2,50		0,210	0,140
10	3/8	18	0,71	20	300	80	3,00		0,270	0,180
13	1/2	22	0,87	20	300	104	4,00		0,370	0,250
16	5/8	25	0,98	17	250	128	5,00		0,450	0,305
19	3/4	29	1,14	17	250	152	6,00		0,570	0,385
25	1	36	1,42	14	200	200	8,00		0,760	0,515
NA		LA	NEU	EMEA	SA	AP	AU			



175AH

Compressed air 20 bar (300 psi) - standard duty

Tube: Black EPDM - oil mist resistant
Reinforcement: High tensile textile cords
Cover: Red EPDM - abrasion and ozone resistant
Use: Compressed air and general industrial applications
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏰	⤴	⤵	⏸	⏸	⏸	⏸
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
10	3/8	17	0,67	20	300	80	3,00		0,220	0,150
13	1/2	21	0,83	20	300	104	4,00		0,260	0,175
19	3/4	29	1,14	20	300	152	6,00		0,510	0,345
25	1	35	1,38	20	300	200	8,00		0,610	0,410
NA	LA	NEU		EMEA	SA	AP	AU			



175AK

Compressed air 20 bar (300 psi) - standard duty

Tube: Black SBR/NBR - oil mist resistant
Reinforcement: High tensile textile cords
Cover: Yellow SBR - abrasion and ozone resistant
Use: Compressed air and general industrial applications
Safety factor: 3:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⊥		⌒		⊘	■		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	29	1,14	20	300				0,550	0,370	
22	7/8	32	1,26	20	300				0,620	0,420	
25	1	35	1,38	20	300				0,690	0,465	
28	1 1/8	38	1,50	20	300				0,790	0,535	
30	1 3/16	42	1,65	20	300				0,840	0,565	
32	1 1/4	44	1,73	20	300				0,880	0,595	
35	1 3/8	47	1,85	20	300				0,940	0,635	
38	1 1/2	50	1,97	20	300				1,020	0,690	
40	1 9/16	52	2,05	20	300				1,070	0,720	
45	1 3/4	57	2,24	20	300				1,190	0,800	
48	1 7/8	60	2,36	20	300				1,260	0,850	
51	2	63	2,48	20	300				1,320	0,890	
51	2	65	2,56	20	300				1,650	1,110	
55	2 1/6	69	2,72	20	300				1,750	1,180	
60	2 3/8	76	2,99	20	300				2,180	1,470	
63	2 1/2	79	3,11	20	300				2,280	1,535	
76	3	92	3,62	20	300				2,780	1,870	
90	3 1/2	106	4,17	20	300				3,210	2,160	
102	4	118	4,65	20	300				3,630	2,440	
152	6	170	6,69	20	300				6,160	4,140	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Compressed air designed for heavy duty applications
Safety factor: ≤ 51 mm 3:1 ≥ 55 mm 2,5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊥		⌒		⊘	■		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	21	0,83	20	300				0,320	0,215	
19	3/4	29	1,14	20	300				0,560	0,380	
25	1	35	1,38	20	300				0,700	0,475	
32	1 1/4	44	1,73	20	300				0,890	0,600	
38	1 1/2	50	1,97	20	300				1,040	0,700	
51	2	65	2,56	20	300				1,660	1,120	
63	2 1/2	79	3,11	20	300				2,300	1,550	
76	3	92	3,62	20	300				2,810	1,890	
102	4	118	4,65	20	300				3,670	2,470	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Compressed air designed for heavy duty applications
Safety factor: ≤ 51 mm 3:1 ≥ 63 mm 2,5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

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↔		↔		⌚	⌚	↷		⌚	⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	22	0,87	40	600	65	2,50		0,410	0,280
19	3/4	28	1,10	40	600	95	4,00		0,540	0,365
25	1	34	1,34	40	600	125	5,00		0,690	0,465
32	1 1/4	42	1,65	40	600	160	6,50		1,070	0,720
38	1 1/2	48	1,89	40	600	190	7,50		1,270	0,855
51	2	64	2,52	40	600	255	10,00		1,990	1,340
63	2 1/2	77	3,03	30	450	315	12,50		2,430	1,635
76	3	90	3,54	30	450	380	15,00		2,900	1,950
102	4	118	4,65	30	450	510	20,00		4,100	2,751
NA	LA	NEU	EMEA	SA	AP	AU				



140AK Compressed air 40 bar (600 psi) steel braided

Tube: Black SBR - oil mist resistant
Reinforcement: High tensile steel wire braids
Cover: Yellow SBR - abrasion, ozone, hydrocarbon resistant - pin pricked
Use: High pressure compressed air designed for heavy duty mine and quarry applications where long service life and maximum safety is required
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚	⌚	↷		⌚	⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
51	2	64	2,52	40	600	255	10,00		1,720	1,160
76	3	90	3,54	30	450	380	15,00		2,840	1,910
NA	LA	NEU	EMEA	SA	AP	AU				



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
Use: High pressure compressed air designed for heavy duty mine and quarry applications where long service life and maximum safety is required
Safety factor: 4:1
Temperature: -40 °C +120 °C (-40 °F +248 °F)

↔		↔		⌚	⌚	↷		⌚	⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
38	1 1/2	54	2,13	90	1350	190	7,50		2,090	1,405
51	2	67	2,64	80	1200	255	10,00		2,860	1,925
NA	LA	NEU	EMEA	SA	AP	AU				



132AE Compressed air 80 bar (1200 psi) high temperature - steel braided

Tube: Black chlorobutyl - oil mist * and high temperature resistant
Reinforcement: High tensile steel wire braids
Cover: Blue EPDM - abrasion and ozone resistant - pin pricked
Use: 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
Safety factor: 4:1
Temperature: -40 °C +150 °C (-40 °F +300 °F) with peaks of 232 °C (450 °F)

* maximum oil mist: six parts per million

↔		↔		⊕		⌒		⌒		⊕	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	12	0,47	20	300	36	1,50		0,140	0,095	
10	3/8	16	0,63	20	300	60	2,50		0,185	0,125	
13	1/2	19	0,75	20	300	78	3,00		0,235	0,160	
16	5/8	23	0,91	20	300	96	3,75		0,325	0,220	
19	3/4	26	1,02	20	300	114	4,50		0,370	0,250	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: "Push-on" compressed air in automotive assembly lines and general industrial applications
Safety factor: 4:1
Temperature: -20 °C +70 °C (-4 °F +158 °F)

↔		↔		⊕		⌒		⌒		⊕	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	12	0,47	20	300	36	1,50		0,140	0,095	
10	3/8	16	0,63	20	300	60	2,50		0,185	0,125	
13	1/2	19	0,75	20	300	78	3,00		0,235	0,160	
16	5/8	23	0,91	20	300	96	4,00		0,325	0,220	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: "Push-on" compressed air in automotive assembly lines and general industrial applications
Safety factor: 4:1
Temperature: -20 °C +70 °C (-4 °F +158 °F)

↔		↔		⊕		⌒		⌒		⊕	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
11	7/16	18	0,71	10	150	70	2,75		0,210	0,140	
13	1/2	25	0,98	10	150	100	4,00		0,470	0,320	
NA		LA		NEU		EMEA		SA		AP AU	



165AA
Air brake 10 bar (150 psi)
DIN 74310

Tube: Black EPDM
Reinforcement: High tensile textile cords
Cover: Black EPDM - abrasion and ozone resistant
Use: Air brake hose
Safety factor: 2,5:1
Temperature: -40 °C +70 °C (-40 °F +158 °F)

↔		↔		⊕		⌒		⌒		⊕	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
10	3/8	19	0,75	20	300	90	3,50		0,280	0,190	
14,5	37/64	25,5	1,00	20	300	115	4,50		0,450	0,305	
NA		LA		NEU		EMEA		SA		AP AU	



166AA
Air brake 20 bar (300 psi)
SAE J1402

Tube: Black NBR
Reinforcement: High tensile textile cords
Cover: Black NBR - abrasion and ozone resistant
Use: Air brake hose
Safety factor: 3:1
Temperature: -40 °C +70 °C (-40 °F +158 °F)

↔		↔		⊕		⌒		⌒		⊕	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	25	0,98	20	300				0,460	0,310	
20	13/16	34	1,34	20	300				0,810	0,545	
22	7/8	36	1,42	20	300				0,880	0,595	
28	1 1/8	44	1,73	20	300				1,040	0,700	
30	1 3/16	46	1,81	20	300				1,100	0,740	
35	1 3/8	53	2,09	20	300				1,440	0,970	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Railway air brake
Safety factor: 4:1
Temperature: -25 °C +65 °C (-13 °F +150 °F)



HOT AIR

HOSE

952AA	Hot air blower 10 bar (150 psi) - soft wall external textile braid.....	H.22
962LA	Hot air blower 10 bar (150 psi) - soft wall.....	H.22
902AA	Hot air blower 10 bar (150 psi) - hard wall	H.23
902AE	Hot air blower 10 bar (150 psi) - hard wall	H.23
902LE	Hot air blower 10 bar (150 psi) - hard wall	H.23
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HOSE & RECOMMENDED FITTING TABLEA.41

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↔		↔		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
51	2	67	2,64	10	150	255	10,00		1,510	1,015
76	3	92	3,62	10	150	380	15,00		2,340	1,575
NA	LA	NEU	EMEA	SA	AP	AU				



952AA

Hot air blower 10 bar (150 psi) - soft wall external textile braid

Tube: Black EPDM - heat resistant

Reinforcement: High tensile textile braids

Use: Hot air connection from volumetric compressor to bulk food/material road tanker

Safety factor: 3:1

Temperature: -40 °C +180 °C (-40 °F +356 °F)

↔		↔		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
51	2	69	2,72	10	150	255	10,00		2,640	1,775
76	3	94	3,70	10	150	380	15,00		3,500	2,355
NA	LA	NEU	EMEA	SA	AP	AU				



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

Use: Hot air connection from volumetric compressor to bulk food/material road tanker

Safety factor: 3:1

Temperature: -40 °C +180 °C (-40 °F +356 °F)

↔		↔		⌚		⤴		⌘		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	63	2,48	10	150	153	6,00	100	1,500	1,010	
63	2 1/2	77	3,03	10	150	189	7,50	100	1,990	1,340	
76	3	90	3,54	10	150	228	9,00	90	2,380	1,600	
102	4	116	4,57	10	150	306	12,00	90	3,310	2,225	
NA		LA		NEU		EMEA		SA		AP	
											AU



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
Use: Hot air connection from volumetric compressor to bulk food/material road tanker. Special light weight and flexible construction
Safety factor: 3:1
Temperature: -40 °C +180 °C (-40 °F +356 °F)

↔		↔		⌚		⤴		⌘		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	90	3,54	10	150	228	9,00	90	2,310	1,555	
NA		LA		NEU		EMEA		SA		AP	
											AU



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
Use: Hot air connection from volumetric compressor to bulk food/material road tanker. Special light weight and flexible construction
Safety factor: 3:1
Temperature: -40 °C +180 °C (-40 °F +356 °F)

↔		↔		⌚		⤴		⌘		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	63	2,48	10	150	153	6,00	100	1,540	1,035	
53	2 1/16	65	2,56	10	150	159	6,25	100	1,590	1,070	
63	2 1/2	77	3,03	10	150	189	7,50	90	2,340	1,575	
76	3	90	3,54	10	150	228	9,00	90	2,800	1,885	
90	3 1/2	104	4,09	10	150	270	10,50	90	3,470	2,335	
NA		LA		NEU		EMEA		SA		AP	
											AU



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
Use: Hot air connection from volumetric compressor to bulk food/material road tanker. Special light weight and flexible construction
Safety factor: 3:1
Temperature: -40 °C +180 °C (-40 °F +356 °F)

↔		↔		⌚		⤴		⌘		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
38	1 1/2	50	2,00	10	150	114	4,50	100	1,060	0,715	
51	2	63	2,48	10	150	153	6,00	100	1,360	0,915	
76	3	90	3,54	10	150	228	9,00	90	2,450	1,650	
102	4	116	4,57	10	150	306	12,00	90	3,350	2,255	
127	5	145	5,71	10	150	408	16,50	80	5,700	3,835	
NA		LA		NEU		EMEA		SA		AP	
											AU



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
Use: Hot air connection from volumetric compressor to bulk food/material road tanker. Special light weight and flexible construction. Also suitable for liquid food
Safety factor: 3:1
Temperature: -40 °C +180 °C (-40 °F +356 °F)



WATER & LIQUIDS

HOSE

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264GL	Water S&D - PVC - light duty	H.29
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HOSE & RECOMMENDED FITTING TABLEA.42

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HYDRAULIC FITTINGS - AG Hydraulic catalogue

hose

↔		↔		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
3	1/8	5	0,20						0,020	0,013
4	5/32	6	0,24						0,020	0,013
5	3/16	8	0,31						0,040	0,027
6	1/4	9	0,35						0,045	0,030
7	9/32	11	0,43						0,060	0,040
8	5/16	12	0,47						0,070	0,047
10	3/8	14	0,55						0,080	0,055
12	15/32	16	0,63						0,110	0,075
14	9/16	19	0,75						0,140	0,095
16	5/8	22	0,87						0,200	0,135
18	23/32	24	0,94						0,245	0,165
20	13/16	26	1,02						0,265	0,180
22	7/8	28	1,10						0,290	0,195
25	1	32	1,26						0,415	0,280

NA LA NEU EMEA SA AP AU



49000 General purpose tubing - PVC FDA

Tube: Transparent PVC
Use: General purpose.
 Sterilize with 5% soda solution
Temperature: -5 °C +60 °C (+23 °F +140 °F)

fittings

↔		↔		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
6	1/4	11	0,43	20	300				0,080	0,055
8	5/16	13	0,51	15	225				0,095	0,065
10	3/8	15	0,59	15	225				0,110	0,075
13	1/2	19	0,75	10	150				0,165	0,110
16	5/8	22	0,87	10	150				0,215	0,145
19	3/4	25	1,00	10	150				0,255	0,175
25	1	32	1,25	10	150				0,385	0,260
30	1 3/16	38	1,50	7	100				0,515	0,350
32	1 1/4	42	1,65	7	100				0,685	0,465
38	1 1/2	48	1,89	7	100				0,810	0,545
51	2	63	2,48	6	90				1,315	0,885

NA LA NEU EMEA SA AP AU



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
Use: General purpose food quality. Sterilize with 5% soda solution
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	19	0,75	10	150	104	4,00		0,205	0,140
16	5/8	22	0,87	10	150	128	5,00		0,245	0,165
19	3/4	26	1,02	10	150	152	6,00		0,345	0,235
25	1	33	1,30	10	150	200	8,00		0,510	0,345
32	1 1/4	44	1,73	7	100	256	10,00		0,960	0,650

NA LA NEU EMEA SA AP AU



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
Use: Air and water delivery
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

appendix

↔		↔		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	19	0,75	10	150	104	4,00		0,205	0,140
19	3/4	26	1,02	10	150	152	6,00		0,345	0,235
25	1	33	1,30	10	150	200	8,00		0,510	0,345

NA LA NEU EMEA SA AP AU



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
Use: Air and water delivery
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⌚		⌒		⌘	⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
38	1 1/2			5	75				0,210	0,140
51	2			5	75				0,270	0,180
63	2 1/2			4	60				0,380	0,255
76	3			4	60				0,530	0,360
102	4			4	60				0,710	0,480
152	6			3	45				1,180	0,795
203	8			3	45				1,800	1,210
NA		LA		NEU		EMEA		SA	AP	AU



286EE

Water discharge - PVC - lay flat - standard duty

Tube: Blue PVC
Reinforcement: High tensile textile cords
Cover: Blue PVC - abrasion and ozone resistant
Use: Lay flat water discharge
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⌚		⌒		⌘	⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1			10	150				0,190	0,130
32	1 1/4			9	135				0,240	0,160
38	1 1/2			8	120				0,300	0,200
45	1 3/4			8	120				0,350	0,235
51	2			8	120				0,410	0,275
63	2 1/2			8	120				0,560	0,380
76	3			8	120				0,680	0,460
102	4			7	100				1,000	0,675
152	6			4	60				1,600	1,080
NA		LA		NEU		EMEA		SA	AP	AU



288HH

Water discharge - PVC - lay flat - heavy duty

Tube: Red PVC
Reinforcement: High tensile textile cords
Cover: Red PVC - abrasion and ozone resistant
Use: Lay flat water discharge
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⌚		⌒		⌘	⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
102	4	110	4,33	5	75				1,660	1,120
152	6	160	6,30	5	75				2,410	1,620
203	8	213	8,39	5	75				3,230	2,175
254	10	264	10,39	5	75				3,980	2,675
NA		LA		NEU		EMEA		SA	AP	AU



250AA

Water discharge 5 bar (75 psi) - lay flat

Tube: Black EPDM
Reinforcement: High tensile textile cords
Cover: Black EPDM - abrasion and ozone resistant
Use: Lay flat water discharge
Safety factor: ≤ 102 mm 3:1 ≥ 152 mm 2:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⌒		⌘	⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
32	1 1/4	40	1,57	10	150				0,460	0,310
38	1 1/2	46	1,81	10	150				0,540	0,365
40	1 9/16	48	1,89	10	150				0,570	0,385
45	1 3/4	53	2,09	10	150				0,660	0,445
51	2	59	2,32	10	150				0,730	0,495
60	2 3/8	68	2,68	10	150				0,860	0,580
63	2 1/2	71	2,80	10	150				0,890	0,600
70	2 3/4	78	3,07	10	150				1,190	0,800
76	3	84	3,31	10	150				1,280	0,865
90	3 1/2	98	3,86	10	150				1,480	0,995
102	4	110	4,33	10	150				1,770	1,190
127	5	137	5,39	10	150				2,400	1,615
152	6	162	6,38	10	150				2,970	2,000
168	6 5/8	178	7,01	10	150				3,220	2,165
203	8	215	8,46	10	150				4,190	2,820
254	10	270	10,63	10	150				7,600	5,110
305	12	319	12,56	10	150				8,810	5,925
NA		LA		NEU		EMEA		SA	AP	AU



253AA

Water discharge 10 bar (150 psi) - lay flat

Tube: Black EPDM
Reinforcement: High tensile textile cords
Cover: Black EPDM - abrasion and ozone resistant
Use: Lay flat water discharge
Safety factor: 3:1 ≥ 203 mm 2:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	21	0,83	10	150				0,320	0,215	
19	3/4	27	1,06	10	150				0,430	0,290	
25	1	33	1,30	10	150				0,540	0,365	
32	1 1/4	42	1,65	10	150				0,830	0,560	
38	1 1/2	48	1,89	10	150				0,970	0,655	
51	2	61	2,40	10	150				1,290	0,870	
63	2 1/2	75	2,95	10	150				1,910	1,285	
76	3	88	3,46	10	150				2,290	1,540	
102	4	114	4,49	10	150				3,090	2,080	
152	6	166	6,54	10	150				4,650	3,125	
203	8	219	8,62	10	150				6,890	4,635	

NA	LA	NEU	EMEA	SA	AP	AU
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254AA
Air-water delivery 10 bar (150 psi)

Tube: Black SBR
Reinforcement: High tensile textile cords
Cover: Black SBR - abrasion and ozone resistant
Use: Air and water delivery
Safety factor: 3:1 203 mm 2:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
32	1 1/4	42	1,65	10	150				0,840	0,565	
38	1 1/2	48	1,89	10	150				0,980	0,660	
45	1 3/4	55	2,17	10	150				1,140	0,770	
51	2	61	2,40	10	150				1,300	0,875	
63	2 1/2	75	2,95	10	150				1,920	1,295	
76	3	88	3,46	10	150				2,310	1,555	
102	4	114	4,49	10	150				3,110	2,095	

NA	LA	NEU	EMEA	SA	AP	AU
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254AH
Air-water delivery 10 bar (150 psi)

Tube: Black SBR
Reinforcement: High tensile textile cords
Cover: Red SBR - abrasion and ozone resistant
Use: Air and water delivery
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	61	2,40	18	270				1,060	0,715	
60	2 3/8	72	2,83	18	270				1,380	0,930	
70	2 3/4	82	3,23	18	270				1,600	1,080	
76	3	88	3,46	18	270				1,720	1,160	
80	3 1/8	92	3,62	18	270				1,870	1,260	
90	3 1/2	102	4,02	18	270				2,060	1,385	
102	4	114	4,49	18	270				2,350	1,580	
120	4 3/4	132	5,20	18	270				2,850	1,920	
152	6	168	6,61	18	270				4,750	3,195	

NA	LA	NEU	EMEA	SA	AP	AU
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256AA
Water-irrigation 18 bar (270 psi) - heavy duty

Tube: Black EPDM
Reinforcement: High tensile textile cords
Cover: Black EPDM - abrasion and ozone resistant
Use: Heavy duty water discharge.
 Specially designed for high pressure irrigation systems
Safety factor: 2,5:1 152 mm 2:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
20	13/16			7	100	110	4,25	60	0,200	0,135	
25	1			7	100	138	5,50	60	0,250	0,170	
32	1 1/4			6	90	176	7,00	60	0,340	0,230	
38	1 1/2			5	75	209	8,25	60	0,440	0,300	
51	2			5	75	281	11,00	60	0,650	0,440	

NA LA **NEU** **EMEA** SA AP **AU**



264GL
Water S&D - PVC - light duty

Construction: Green transparent PVC - abrasion and ozone resistant
Reinforcement: White shock resistant rigid PVC
Use: Water suction and delivery
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		⌚		⤴		⌚		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1			7	100	113	4,50	70	0,290	0,195	
32	1 1/4			6	90	144	5,75	70	0,390	0,265	
38	1 1/2			5	75	171	6,75	70	0,510	0,345	
45	1 3/4			5	75	203	8,00	70	0,670	0,455	
51	2			5	75	230	9,00	70	0,760	0,515	
63	2 1/2			5	75	284	11,25	70	0,970	0,655	
76	3			5	75	342	13,50	70	1,330	0,895	
90	3 1/2			4	60	405	16,00	70	1,800	1,210	
102	4			4	60	459	18,00	70	2,190	1,475	
127	5			3	45	597	23,50	50	2,900	1,950	
152	6			3	45	714	28,25	50	4,000	2,690	
203	8			2	30	954	37,50	40	6,200	4,170	

NA LA **NEU** **EMEA** SA AP **AU**



266GL
Water S&D - PVC - standard duty

Construction: Green transparent PVC - abrasion and ozone resistant
Reinforcement: White shock resistant rigid PVC
Use: Water suction and delivery
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		⌚		⤴		⌚		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
20	13/16			7	100	90	3,50	70	0,230	0,155	
25	1			7	100	113	4,50	70	0,290	0,195	
30	1 3/16			6	90	135	5,25	70	0,360	0,245	
32	1 1/4			6	90	144	5,75	70	0,390	0,265	
35	1 3/8			6	90	158	6,25	70	0,440	0,300	
38	1 1/2			5	75	171	6,75	70	0,510	0,345	
40	1 9/16			5	75	180	7,00	70	0,540	0,365	
45	1 3/4			5	75	203	8,00	70	0,670	0,455	
51	2			5	75	230	9,00	70	0,760	0,515	
60	2 3/8			5	75	270	10,50	70	0,920	0,620	
63	2 1/2			5	75	284	11,25	70	0,970	0,655	
76	3			5	75	342	13,50	70	1,330	0,895	
80	3 1/8			4	60	360	14,00	70	1,450	0,975	
102	4			4	60	459	18,00	70	2,190	1,475	

NA **LA** **NEU** **EMEA** SA AP AU



266KL
Water S&D - PVC - standard duty

Construction: Yellow transparent PVC - abrasion and ozone resistant
Reinforcement: White shock resistant rigid PVC
Use: Water suction and delivery.
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		⌚		⤴		⌚		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
38	1 1/2			5	75	152	6,00	60	0,510	0,345	
45	1 3/4			5	75	180	7,00	60	0,670	0,455	
51	2			5	75	204	8,00	60	0,760	0,515	

NA **LA** **NEU** **EMEA** SA AP AU



266OL
Water S&D - PVC - standard duty - super elastic

Construction: Transparent PVC - abrasion and ozone resistant
Reinforcement: White shock resistant rigid PVC
Use: Water suction and delivery. Good flexibility at low temperature
Safety factor: 3:1
Temperature: -20 °C +60 °C (-4 °F +140 °F)

↔		↔		⌚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2			5	75	204	8,0	90	0,850	0,575	
63	2 1/2			4	60	252	10,0	90	1,250	0,845	
76	3			4	60	304	12,0	90	1,500	1,010	
102	4			3	45	408	16,0	90	2,200	1,480	
127	5			3	45	508	20,0	90	3,200	2,155	
152	6			2	30	608	24,0	90	4,100	2,760	

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Water suction and delivery.

Special light weight construction for slurry tankers.

Good flexibility at low temperature

Safety factor: 3:1

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

↔		↔		⌚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1			7	100	100	4,00	90	0,410	0,275	
32	1 1/4			7	100	128	5,00	90	0,600	0,405	
38	1 1/2			7	100	152	6,00	90	0,700	0,475	
51	2			5	75	204	8,00	90	1,000	0,675	
60	2 3/8			5	75	240	9,50	90	1,280	0,865	
63	2 1/2			5	75	252	10,00	90	1,340	0,905	
76	3			5	75	304	12,00	90	1,750	1,180	
80	3 1/8			5	75	320	12,50	90	1,840	1,240	
90	3 1/2			4	60	360	14,00	90	2,260	1,520	
102	4			4	60	408	16,00	90	2,700	1,815	
110	4 5/16			4	60	440	17,50	90	3,100	2,085	
120	4 3/4			4	60	480	19,00	90	3,600	2,420	
127	5			4	60	508	20,00	90	3,800	2,555	
152	6			3	45	608	24,00	90	4,850	3,260	
203	8			3	45	812	32,00	90	9,100	6,120	

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Water suction and delivery.

Special construction for slurry tankers.

Good flexibility at low temperature

Safety factor: 3:1

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

↔		↔		⌚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2			5	75	178	7,00	90	1,000	0,675	
63	2 1/2			5	75	220	8,75	90	1,350	0,910	
76	3			5	75	266	10,50	90	1,750	1,180	
90	3 1/2			4	60	315	12,50	90	2,250	1,515	
102	4			4	60	357	14,00	90	2,700	1,815	
127	5			3	45	444	17,50	90	3,800	2,555	
152	6			3	45	532	21,00	90	4,900	3,295	

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Water suction and delivery.

Special construction for slurry tankers and general applications.

Superior flexibility at low temperature

Safety factor: 3:1

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

↔		↔		⌚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1			7	100	150	6,00	90	0,520	0,350	
32	1 1/4			6	90	192	7,50	90	0,650	0,440	
38	1 1/2			6	90	228	9,00	90	0,760	0,515	
51	2			5	75	306	12,00	90	1,100	0,740	
63	2 1/2			4	60	378	15,00	90	1,550	1,045	
76	3			4	60	456	18,00	90	1,900	1,280	
80	3 1/8			4	60	480	19,00	90	2,100	1,415	
90	3 1/2			4	60	540	21,00	90	2,500	1,685	
102	4			3	45	612	24,00	90	3,200	2,155	
127	5			3	45	762	30,00	90	4,200	2,825	
152	6			2	30	912	36,00	90	6,000	4,035	
203	8			2	30	1218	48,00	60	10,000	6,725	

NA	LA	NEU	EMEA	SA	AP	AU
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268BL

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

Construction: Grey PVC - abrasion and ozone resistant

Reinforcement: White shock resistant rigid PVC

Use: Heavy duty water suction and delivery.

Also suitable for abrasive slurries transfer

Safety factor: 3:1

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

↔		↔		⊕		↷		⊘	■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
10	3/8	16	0,63	15	225	40	1,50	90	0,170	0,115
13	1/2	19	0,75	7	100	52	2,00	85	0,205	0,138
14	9/16	20	0,79	6	90	56	2,25	85	0,220	0,150
16	5/8	22	0,87	6	90	64	2,50	85	0,250	0,170
18	23/32	26	1,02	6	90	72	2,75	85	0,320	0,215
20	13/16	28	1,10	5	75	80	3,00	85	0,340	0,230
22	7/8	30	1,18	5	75	88	3,50	85	0,380	0,255
25	1	33	1,30	5	75	100	4,00	85	0,530	0,360
30	1 3/16	38	1,50	4	60	120	4,75	85	0,620	0,420
32	1 1/4	40	1,57	4	60	128	5,00	85	0,655	0,440
35	1 3/8	45	1,77	4	60	140	5,50	85	0,800	0,540
38	1 1/2	48	1,89	4	60	152	6,00	85	0,855	0,570
40	1 9/16	50	1,97	3	45	160	6,25	85	0,895	0,605
45	1 3/4	55	2,17	3	45	180	7,00	80	1,100	0,740
51	2	61	2,40	3	45	204	8,00	80	1,230	0,830
60	2 3/8	72	2,83	2	30	240	9,50	80	1,700	1,140
63	2 1/2	75	2,95	2	30	252	10,00	80	1,775	1,190
70	2 3/4	84	3,31	2	30	280	11,00	80	2,030	1,365
76	3	90	3,54	2	30	304	12,00	70	2,450	1,650
80	3 1/8	94	3,70	2	30	320	12,50	70	2,565	1,720
90	3 1/2	104	4,09	2	30	360	14,00	70	3,000	2,020
102	4	116	4,57	2	30	408	16,00	70	3,480	2,340
105	4 1/8	121	4,76	3	45	420	16,50	90	4,250	2,860
152	6	172	6,77	2	30	608	24,00	70	7,300	4,910

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: General purpose liquid food and alcoholic beverages suction and delivery - max 20% - Sterilize with 5% soda solution
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

hose

fittings

appendix

↔		↔		⌚	⌚	⌒		⌒	⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
152	6	166	6,54	5	75	760	30,00	80	6,140	4,130
203	8	221	8,70	5	75	1015	40,00	70	10,500	7,060

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Water suction and delivery

Safety factor: 3:1 254 mm 2:1

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

↔		↔		⌚	⌚	⌒		⌒	⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1	35	1,38	10	150	100	4,00	100	0,690	0,465
30	1 3/16	40	1,57	10	150	120	4,75	100	0,780	0,525
32	1 1/4	42	1,65	10	150	128	5,00	100	0,820	0,555
38	1 1/2	48	1,89	10	150	152	6,00	100	0,950	0,640
40	1 9/16	50	1,97	10	150	160	6,25	100	1,000	0,675
45	1 3/4	55	2,17	10	150	180	7,00	100	1,110	0,750
51	2	61	2,40	10	150	204	8,00	100	1,240	0,835
60	2 3/8	72	2,83	10	150	240	9,50	100	1,710	1,150
63	2 1/2	75	2,95	10	150	252	10,00	90	1,780	1,200
70	2 3/4	82	3,23	10	150	280	11,00	90	1,990	1,340
76	3	88	3,46	10	150	304	12,00	90	2,140	1,440
80	3 1/8	92	3,62	10	150	320	12,50	90	2,300	1,550
90	3 1/2	102	4,02	10	150	360	14,00	90	2,700	1,815
102	4	114	4,49	10	150	408	16,00	90	3,010	2,025
110	4 5/16	122	4,80	10	150	440	7,25	80	3,210	2,160
115	4 1/2	127	5,00	10	150	460	18,00	80	3,340	2,245
120	4 3/4	134	5,28	10	150	600	24,00	80	4,500	3,025
127	5	141	5,55	10	150	635	25,00	80	4,730	3,180
152	6	166	6,54	10	150	760	30,00	80	5,960	4,010
203	8	221	8,70	10	150	1015	40,00	70	9,810	6,595
254	10	272	10,71	10	150	1270	50,00	60	13,430	9,030

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Water suction and delivery. Also suitable for mild chemicals and fertilizers in general industrial and agricultural applications

Safety factor: ≤ 127 mm 3:1 ≥ 152 mm 2,5:1

Temperature: -40 °C +100 °C (-40 °F +212 °F)
depending on conveyed chemical

↔		↔		⌚	⌚	⌒		⌒	⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
51	2	63	2,48	20	300	204	8,00	100	1,420	0,955
63	2 1/2	77	3,03	20	300	252	10,00	90	2,070	1,395
76	3	90	3,54	20	300	304	12,00	90	2,550	1,715
102	4	116	4,57	20	300	408	16,00	90	3,490	2,350
152	6	168	6,61	20	300	608	24,00	80	6,810	4,580
203	8	225	8,86	20	300	812	32,00	70	10,910	7,335

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Water suction and delivery. Designed for long service life in heavy duty applications

Safety factor: 3:1

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

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3			5	75	190	7,48	90	2,230	1,500	
102	4			5	75	255	10,04	90	2,940	1,980	
120	4 3/4			5	75	300	11,81	80	3,540	2,380	
152	6			3	45	380	14,96	80	4,650	3,130	
203	8			3	45	508	20,00	80	6,370	4,290	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Water suction and delivery.
 Special light weight and flexible construction for slurry tankers
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
152	6			10	150	608	24,00	100	6,650	4,470	
203	8			10	150	812	32,00	100	8,850	5,950	
254	10			10	150	1016	40,00	100	12,530	8,425	
300	12			10	150	1200	48,00	100	17,380	11,685	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Heavy duty suction. Specially designed for full vacuum dewatering applications. Also suitable for mild chemicals.
Safety factor: 3:1
Temperature: -50 °C +80 °C (-58 °F +176 °F)

↔		↔		⊕	⌒	⌒	⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
28	1 1/8	32	1,26	6	90	168	6,75	90	0,250	0,170
32	1 1/4	40	1,57	6	90	192	7,50	90	0,540	0,365
42	1 5/8	50	1,97	6	90	252	10,00	90	0,780	0,525
55	2 1/6	63	2,48	5	75	330	13,00	90	0,840	0,565

NA	LA	NEU	EMEA	SA	AP	AU
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268LL

Pools-SPA water circulation

Construction: White PVC - abrasion and ozone resistant

Reinforcement: White shock resistant rigid PVC

Use: Water circulation systems for pools and SPA.

Hose outside diameters made to fit rigid PVC pipe fittings

Safety factor: 3:1

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

↔		↔		⊕	⌒	⌒	⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1	36	1,42	100	1500				0,930	0,625
38	1 1/2	50	1,97	100	1500				1,650	1,110

NA	LA	NEU	EMEA	SA	AP	AU
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248AE

High pressure water delivery 100 bar (1500 psi) snow maker - steel braided

Tube: Black SBR

Reinforcement: High tensile steel wire braids

Cover: Blue CSM - abrasion and ozone resistant

Use: High pressure water delivery.

Specially designed for artificial snow makers.

Designed for use of EN 853 1SN fittings

Safety factor: 2:1

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



AGRICULTURE

HOSE

591AE	Crop spraying 40 bar (600 psi) - PVC	H.36
593AK	Crop spraying 80 bar (1200 psi) - PVC	H.36
266OA	Air seeder - PVC	H.36
702AA	Air seeder.....	H.36



↔		↔		⊥		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
8	5/16	14	0,55	50	730	64	2,50		0,135	0,090	
10	3/8	16	0,63	50	730	80	3,00		0,160	0,110	
13	1/2	20	0,79	40	600	104	4,00		0,225	0,150	
16	5/8	24	0,94	40	600	128	5,00		0,320	0,215	
19	3/4	27	1,06	40	600	152	6,00		0,370	0,250	
25	1	34	1,34	40	600	200	8,00		0,525	0,355	
NA		LA		NEU		EMEA		SA		AP AU	



591AE

Crop spraying 40 bar (600 psi) - PVC

Tube: Black PVC
Reinforcement: High tensile textile cords
Cover: Blue PVC - abrasion and ozone resistant.
Use: Crop spraying of fertilizers, pesticides and weed-killers
Safety factor: ≤10 mm and 25 mm 2,5:1 >10 mm 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		⊥		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
8	5/16	15	0,59	80	1200	64	2,50		0,160	0,110	
10	3/8	18	0,71	80	1200	80	3,00		0,230	0,155	
13	1/2	22	0,87	80	1200	104	4,00		0,320	0,215	
NA		LA		NEU		EMEA		SA		AP AU	



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.
Use: Crop spraying of fertilizers, pesticides and weed-killers
Safety factor: 2,5:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		⊥		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1			8	120	113	4,50	70	0,290	0,195	
32	1 1/4			7	100	144	5,75	70	0,390	0,265	
38	1 1/2			6	90	171	6,75	70	0,510	0,345	
45	1 3/4			6	90	203	8,00	70	0,670	0,455	
51	2			5	75	230	9,00	70	0,760	0,515	
63	2 1/2			5	75	284	11,25	70	1,180	0,795	
76	3			5	75	342	13,50	70	1,510	1,015	
NA		LA		NEU		EMEA		SA		AP AU	



2660A

Air seeder - PVC

Construction: Transparent PVC - abrasion and ozone resistant
Reinforcement: Black shock resistant rigid PVC
Use: Agricultural seed transfer in "Air-Flo" seeding equipments
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

↔		↔		⊥		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
32	1 1/4	42	1,65	10	150	128	5,00	100	0,870	0,585	
38	1 1/2	48	1,89	10	150	152	6,00	100	1,020	0,690	
45	1 3/4	55	2,17	10	150	180	7,00	100	1,190	0,800	
51	2	61	2,40	10	150	204	8,00	100	1,320	0,890	
63	2 1/2	75	2,95	10	150	252	10,00	90	2,050	1,380	
76	3	88	3,46	10	150	304	12,00	90	2,460	1,655	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Agricultural seed transfer in "Air-Flo" seeding equipments
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)



FIRE FIGHTING

HOSE

283AA	Fire reel 12 bar (180 psi) - EN 694/A2	H.38
251AA	Fire reel 40 bar (600 psi) - textile braided NF EN 1947/C/1/II	H.38
212AA	Fire engine water S&D 5 bar (75 psi) NF EN ISO 14557/A	H.39
210AA	Fire engine water S&D 5 bar (75 psi) - corrugated soft ends - EN ISO 14557/A	H.39

HOSE & RECOMMENDED FITTING TABLEA.43

FITTINGS

Chapter SYMMETRIC GUILLEMINF.33-40

Chapter SYMMETRIC DSP & AR F.42

Chapter GFR - ROUND THREAD COUPLING
NF E 29.579..... F.42
For hose 251AA

Chapter STORZF.43-45



↔		↔		⏰	⤴	⤵	⤶	⤷	⚖	⚖
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1	34	1,34	12	180	200	8,00		0,575	0,390
NA	LA	NEU	EMEA		SA	AP	AU			



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

Use: Fire reels

Safety factor: 4:1

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

↔		↔		⏰	⤴	⤵	⤶	⤷	⚖	⚖
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1	36	1,42	40	600	100	4,00		0,680	0,460
NA	LA	NEU	EMEA		SA	AP	AU			



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

Use: Hose reels on fire fighting vehicles

Safety factor: 3:1

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

→○←		→○←		⊕		⌒) (■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
45	1 3/4	55	2,17	5	75	180	7,00	100	1,270	0,855	
70	2 3/4	82	3,23	5	75	280	11,00	90	2,640	1,775	
110	4 5/16	122	4,80	5	75	440	17,25	80	4,020	2,705	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Water suction and delivery on fire fighting vehicles
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

→○←		→○←		⊕		⌒) (■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
50	2			5	75	125	5,00	100	1,230	0,830	
75	3			5	75	190	7,50	90	1,910	1,285	
100	4			5	75	250	10,00	90	2,500	1,685	
110	4 5/16			5	75	275	11,00	80	2,740	1,845	
125	5			5	75	315	12,50	70	3,390	2,280	

NA	LA	NEU	EMEA	SA	AP	AU
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210AA
Fire engine water S&D 5 bar (75 psi)
corrugated - soft ends
EN ISO 14557/A

Tube: Black SBR
Reinforcement: High tensile textile cords with embedded steel helix wire
Cover: Black SBR - abrasion and ozone resistant
Use: Water suction and delivery on fire fighting vehicles. Special light weight and flexible construction
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)



FURNACE & CABLE COOLING

HOSE

- 254AL Furnace cooling 10 bar (150 psi) - soft wallH.42
- 203AL Furnace cooling 10 bar (150 psi) - hard wallH.42
- 957LL Cable cooling 20 bar (300 psi) - non conductiveH.42



↔		↔		⏱		⤴		⏸		⏹	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	10	150				0,600	0,405	
25	1	37	1,46	10	150				0,750	0,505	
32	1 1/4	46	1,81	10	150				1,120	0,755	
38	1 1/2	52	2,05	10	150				1,300	0,875	
51	2	65	2,56	10	150				1,710	1,150	
NA		LA		NEU		EMEA		SA	AP	AU	



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
Use: General purpose water delivery in furnace cooling applications. Specially designed to withstand heat, splashes of molten metal and open flame
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
 Cover resistant up to 540 °C (1000 °F)

↔		↔		⏱		⤴		⏸		⏹	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	63	2,48	10	150	255	10,00	100	1,840	1,240	
60	2 3/8	72	2,83	10	150	300	12,00	100	2,270	1,530	
63	2 1/2	75	2,95	10	150	300	12,00	90	2,370	1,595	
76	3	88	3,46	10	150	330	13,00	90	2,820	1,900	
80	3 1/8	92	3,62	10	150	400	16,00	90	2,950	1,985	
90	3 1/2	102	4,02	10	150	450	17,50	90	3,380	2,275	
102	4	114	4,49	10	150	510	20,00	90	3,800	2,555	
NA		LA		NEU		EMEA		SA	AP	AU	



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
Use: General purpose water suction and delivery in furnace cooling applications. Specially designed to withstand heat, splashes of molten metal and open flame
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
 Cover resistant up to 540 °C (1000 °F)

↔		↔		⏱		⤴		⏸		⏹	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	25	0,98	20	300				0,440	0,300	
19	3/4	31	1,22	20	300				0,670	0,455	
25	1	37	1,46	20	300				0,820	0,555	
32	1 1/4	46	1,81	20	300				1,220	0,820	
38	1 1/2	54	2,13	20	300				1,460	0,985	
51	2	67	2,64	20	300				1,870	1,260	
63	2 1/2	81	3,19	20	300				2,300	1,550	
76	3	96	3,78	20	300				3,190	2,145	
NA		LA		NEU		EMEA		SA	AP	AU	



957LL
Cable cooling 20 bar (300 psi) non conductive
Tube: White EPDM
Reinforcement: High tensile textile cords
Cover: White non conductive EPDM, heat resistant - fibreglass cover
Use: Non conductive cable cooling in electric furnaces. Specially designed to withstand heat, splashes of molten metal and open flame
Safety factor: 3:1
Temperature: -40 °C +120 °C (-40 °F +248 °F)
 Cover resistant up to 540 °C (1000 °F)



HOT WATER & STEAM

HOSE

375AA	Hot water-car heater 10 bar (150 psi)	H.44
352AA	Radiator 5 bar (75 psi) exceeds DIN 73411 SAE 20R1 D-2.....	H.44
395BT	Hot water wash down 50 bar (750 psi)	H.45
351LL	Hot water wash down 10 bar (150 psi) built in nozzle.....	H.45
351LG	Hot water wash down 10 bar (150 psi) built in nozzle.....	H.45
350AA	Steam 6 bar (90 psi) - hot water 15 bar (225 psi)	H.46
354AA	Steam 6 bar (90 psi) - EN ISO 6134/1A	H.46
350LL	Steam 6 bar (90 psi) - hot water 15 bar (225 psi) FDA	H.46
350LE	Steam 6 bar (90 psi) - hot water 15 bar (225 psi) FDA	H.46
340AA	Steam 18 bar (270 psi) - steel braided	H.47
340AH	Steam 18 bar (270 psi) - steel braided	H.47
344AH	Steam 18 bar (270 psi) - steel braided EN ISO 6134/2A.....	H.47
343AH	Steam 18 bar (270 psi) - oil resistant steel braided.....	H.47
341AA	Steam 18 bar (270 psi) - CIIR -steel braided	H.48
341AH	Steam 18 bar (270 psi) - CIIR - steel braided	H.48
345AA	Steam 18 bar (270 psi) - CIIR - steel braided EN ISO 6134/2A.....	H.48



HOSE & RECOMMENDED FITTING TABLEA.43

FITTINGS

Chapter STEAM.....F.27-31

Chapter COMBINATION NIPPLEF.68-69

HYDRAULIC FITTINGS - AG Hydraulic catalogue

↔		↔		⊕	⌒	⌒	⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	19	0,75	10	150	130	5,00		0,240	0,160
16	5/8	22	0,87	10	150	160	6,25		0,280	0,190
19	3/4	27	1,06	10	150	190	7,50		0,450	0,305
25	1	33	1,30	10	150	250	10,00		0,570	0,385

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: General purpose-hot water.

Specially designed for automotive heating systems

Safety factor: 3:1

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

↔		↔		⊕	⌒	⌒	⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	21	0,83	5	75				0,280	0,190
16	5/8	24	0,94	5	75				0,330	0,225
18	23/32	26	1,02	5	75				0,360	0,245
20	13/16	28	1,10	5	75				0,390	0,265
22	7/8	30	1,18	5	75				0,420	0,285
25	1	33	1,30	5	75				0,470	0,320
28	1 1/8	36	1,42	5	75				0,510	0,345
30	1 3/16	38	1,50	5	75				0,540	0,365
32	1 1/4	40	1,57	5	75				0,570	0,385
35	1 3/8	43	1,69	5	75				0,620	0,420
38	1 1/2	48	1,89	5	75				0,850	0,575
40	1 9/16	50	1,97	5	75				0,890	0,600
42	1 5/8	52	2,05	5	75				0,930	0,625
45	1 3/4	55	2,17	5	75				0,980	0,660
48	1 7/8	58	2,28	5	75				1,040	0,700
51	2	61	2,40	5	75				1,110	0,750
55	2 1/6	65	2,56	5	75				1,180	0,795
57	2 1/4	67	2,64	5	75				1,220	0,820
60	2 3/8	70	2,76	5	75				1,280	0,865
63	2 1/2	73	2,87	5	75				1,340	0,905
70	2 3/4	80	3,15	5	75				1,440	0,970
76	3	86	3,39	5	75				1,550	1,045
80	3 1/8	90	3,54	5	75				1,630	1,100
90	3 1/2	102	4,02	5	75				2,010	1,355
102	4	114	4,49	5	75				2,250	1,515
110	4 5/16	122	4,80	5	75				2,410	1,620
115	4 1/2	127	5,00	5	75				2,510	1,690
127	5	141	5,55	5	75				3,200	2,155

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Radiator

Safety factor: 3:1

Temperature: -40 °C +120 °C (-40 °F +248 °F)

hose

fittings

appendix

↔		↔		⌚		⤴		⚡		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
12	15/32	22	0,87	50	750	84	3,25		0,325	0,220	
NA	LA	NEU		EMEA	SA	AP	AU				



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 and oil resistant
Use: Hot water wash down.
 Specially designed for the food and dairy industry.
 Designed for 50 bar at 70° C continuous use. Food grade
Safety factor: 3:1
Temperature: -10 °C +70 °C (+14 °F +158 °F)

↔		↔		⌚		⤴		⚡		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	10	150				0,640	0,435	
25	1	37	1,46	10	150				0,790	0,535	
32	1 1/4	46	1,81	10	150				1,150	0,775	
38	1 1/2	52	2,05	10	150				1,350	0,910	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: 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
Safety factor: 4:1
Temperature: -40 °C +120 °C (-40 °F +248 °F)

↔		↔		⌚		⤴		⚡		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	10	150				0,610	0,410	
25	1	37	1,46	10	150				0,750	0,505	
32	1 1/4	46	1,81	10	150				1,110	0,750	
38	1 1/2	52	2,05	10	150				1,300	0,875	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: 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
Safety factor: 4:1
Temperature: -40 °C +120 °C (-40 °F +248 °F)

hose

↔		↔		⏱	⤴		⚡	⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	6	90				0,370	0,250
16	5/8	26	1,02	6	90				0,420	0,285
19	3/4	29	1,14	6	90				0,470	0,320
25	1	35	1,38	6	90				0,580	0,390
30	1 3/16	44	1,73	6	90				0,900	0,605
32	1 1/4	46	1,81	6	90				0,950	0,640
38	1 1/2	52	2,05	6	90				1,100	0,740
40	1 9/16	54	2,13	6	90				1,150	0,775
51	2	67	2,64	6	90				1,700	1,145

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Saturated steam and hot water delivery in general industrial applications
Safety factor: Water 4:1 - Steam 10:1
Temperature: Water -40 °C +120 °C (-40 °F +248 °F)
 Steam +165 °C (+330 °F)

↔		↔		⏱	⤴		⚡	⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	25	0,98	6	90				0,430	0,290
16	5/8	30	1,18	6	90				0,600	0,405
19	3/4	33	1,30	6	90				0,680	0,460
25	1	40	1,57	6	90				0,900	0,605

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Saturated steam
Safety factor: 10:1
Temperature: -40 °C +165 °C (-40 °F +330 °F)

fittings

↔		↔		⏱	⤴		⚡	⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	6	90				0,390	0,265
16	5/8	26	1,02	6	90				0,450	0,305
19	3/4	31	1,22	6	90				0,640	0,435
25	1	37	1,46	6	90				0,800	0,540

NA	LA	NEU	EMEA	SA	AP	AU
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350LL
Steam 6 bar (90 psi)
hot water 15 bar (225 psi)
FDA

Tube: White food grade EPDM
Reinforcement: High tensile textile cords
Cover: White EPDM - heat, abrasion and ozone resistant
Use: Saturated steam and hot water delivery in general industrial applications.
 Specially designed for wash down use in the food and dairy industry
Safety factor: Water 4:1 - Steam 10:1
Temperature: Water -40 °C +120 °C (-40 °F +248 °F)
 Steam +165 °C (+330 °F)

↔		↔		⏱	⤴		⚡	⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	6	90				0,370	0,250
16	5/8	26	1,02	6	90				0,430	0,290
19	3/4	31	1,22	6	90				0,600	0,405
25	1	37	1,46	6	90				0,740	0,500
32	1 1/4	46	1,81	6	90				0,930	0,625
38	1 1/2	52	2,05	6	90				1,090	0,735
51	2	67	2,64	6	90				1,660	1,120

NA	LA	NEU	EMEA	SA	AP	AU
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350LE
Steam 6 bar (90 psi)
hot water 15 bar (225 psi)
FDA

Tube: White food grade EPDM
Reinforcement: High tensile textile cords
Cover: Blue EPDM - heat, abrasion and ozone resistant
Use: Saturated steam and hot water delivery in general industrial applications.
 Specially designed for wash down use in the food and dairy industry
Safety factor: Water 4:1 - Steam 10:1
Temperature: Water -40 °C +120 °C (-40 °F +248 °F)
 Steam +165 °C (+330 °F)

appendix

↔		↔		⌚	⌒		⌘	⌚		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	18	270	130	5,00		0,410	0,280
19	3/4	31	1,22	18	270	190	7,50		0,760	0,515
25	1	38	1,50	18	270	250	10,00		0,890	0,600
NA		LA		NEU	EMEA	SA	AP	AU		



Ω
R≤10°Ω

Ω/T
R≤10°Ω

EXTRUDED TUBE

340AA
Steam 18 bar (270 psi)
steel braided

Tube: Black conductive EPDM
Reinforcement: High tensile steel wire braids
Cover: Black conductive EPDM - heat, abrasion and ozone resistant - pin pricked
Use: Saturated and superheated steam
Safety factor: 10:1
Temperature: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

↔		↔		⌚	⌒		⌘	⌚		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,98	18	270	130	5,00		0,420	0,285
16	5/8	26	1,02	18	270	160	6,50		0,460	0,309
19	3/4	31	1,26	18	270	190	7,50		0,770	0,520
25	1	38	1,50	18	270	250	10,00		0,900	0,605
32	1 1/4	46	1,81	18	270	320	12,50		1,270	0,855
38	1 1/2	52	2,05	18	270	380	15,00		1,370	0,925
51	2	67	2,64	18	270	510	20,00		2,050	1,380
63	2 1/2	81	3,19	18	270	630	25,00		2,960	1,986
76	3	94	3,70	18	270	760	30,00		3,720	2,496
NA		LA		NEU	EMEA	SA	AP	AU		



EXTRUDED TUBE

340AH
Steam 18 bar (270 psi)
steel braided

Tube: Black conductive EPDM
Reinforcement: High tensile steel wire braids
Cover: Red EPDM - heat, abrasion and ozone resistant - pin pricked
Use: Saturated and superheated steam
Safety factor: 10:1
Temperature: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

↔		↔		⌚	⌒		⌘	⌚		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	25	0,98	18	270	130	5,00		0,470	0,320
19	3/4	33	1,30	18	270	190	7,50		0,870	0,585
25	1	40	1,57	18	270	250	10,00		0,990	0,670
NA		LA	NEU	EMEA	SA	AP	AU			



EXTRUDED TUBE

344AH
Steam 18 bar (270 psi)
steel braided
EN ISO 6134/2A

Tube: Black conductive EPDM
Reinforcement: High tensile steel wire braids
Cover: Red EPDM - heat, abrasion and ozone resistant - pin pricked
Use: Saturated and superheated steam
Safety factor: 10:1
Temperature: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

↔		↔		⌚	⌒		⌘	⌚		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,98	18	270	130	5,00		0,450	0,305
19	3/4	31	1,26	18	270	190	7,50		0,800	0,535
25	1	38	1,50	18	270	250	10,00		0,970	0,655
NA		LA	NEU	EMEA	SA	AP	AU			



EXTRUDED TUBE

343AH
Steam 18 bar (270 psi)
oil resistant - steel braided

Tube: Black conductive EPDM
Reinforcement: High tensile steel wire braids
Cover: Red special rubber compound - heat, abrasion, ozone and hydrocarbon resistant - pin pricked
Use: Saturated and superheated steam in applications where an oil resistant cover is required
Safety factor: 10:1
Temperature: -40 °C +210 °C (-40 °F +410 °F) intermittent to 232 °C (450 °F)

Black version according to ISO 6134/2B available upon request with minimum order quantities

↔		↔		⏰	⤴	⤴		⌘	⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	18	270	130	5,00		0,430	0,290
19	3/4	31	1,22	18	270	190	7,50		0,780	0,525
25	1	38	1,50	18	270	250	10,00		0,920	0,620
32	1 1/4	46	1,81	18	270	320	12,50		1,320	0,890
38	1 1/2	52	2,05	18	270	380	15,00		1,430	0,965
51	2	67	2,64	18	270	510	20,00		2,150	1,445

NA LA NEU EMEA SA AP AU



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R≤10°Ω

Ω/T
R≤10°Ω

EXTRUDED TUBE

341AA Steam 18 bar (270 psi) - CIIR steel braided

Tube: Black conductive chlorobutyl
Reinforcement: High tensile steel wire braids
Cover: Black conductive EPDM - heat, abrasion and ozone resistant - pin pricked
Use: Saturated and superheated steam
Safety factor: 10:1
Temperature: -40 °C +210 °C (-40 °F +410 °F)
 intermittent to 232 °C (450 °F)

↔		↔		⏰	⤴	⤴		⌘	⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	18	270	130	5,00		0,430	0,290
19	3/4	31	1,22	18	270	190	7,50		0,790	0,535
25	1	38	1,50	18	270	250	10,00		0,930	0,625
32	1 1/4	46	1,81	18	270	320	12,50		1,340	0,905
38	1 1/2	52	2,05	18	270	380	15,00		1,460	0,985
51	2	67	2,64	18	270	510	20,00		2,130	1,435

NA LA NEU EMEA SA AP AU



EXTRUDED TUBE

341AH Steam 18 bar (270 psi) - CIIR steel braided

Tube: Black conductive chlorobutyl
Reinforcement: High tensile steel wire braids
Cover: Red EPDM - heat, abrasion and ozone resistant - pin pricked
Use: Saturated and superheated steam
Safety factor: 10:1
Temperature: -40 °C +210 °C (-40 °F +410 °F)
 intermittent to 232 °C (450 °F)

↔		↔		⏰	⤴	⤴		⌘	⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
19	3/4	33	1,30	18	270	190	7,50		0,800	0,540
25	1	40	1,57	18	270	250	10,00		1,020	0,690
51	2	69	2,72	18	270	510	20,00		2,190	1,475

NA LA NEU EMEA SA AP AU



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R≤10°Ω

Ω/T
R≤10°Ω

EXTRUDED TUBE

345AA Steam 18 bar (270 psi) - CIIR steel braided EN ISO 6134/2A

Tube: Black conductive chlorobutyl
Reinforcement: High tensile steel wire braids
Cover: Black EPDM - heat, abrasion and ozone resistant - pin pricked
Use: Saturated and superheated steam
Safety factor: 10:1
Temperature: -40 °C +210 °C (-40 °F +410 °F)
 intermittent to 232 °C (450 °F)

STEAM HOSE SAFETY GUIDE

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

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

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.

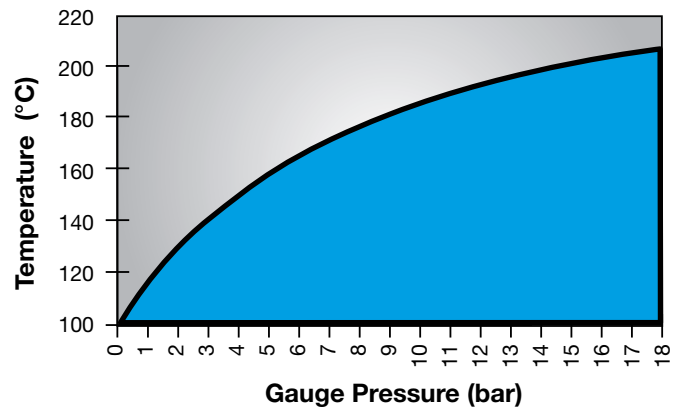
DETERIORATION OF STEAM HOSE


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

The chart represents the three forms of water when subjected to heat and pressure. Use only hoses specifically designed for the application.






Hot water



Superheated steam



Saturated steam



LIQUID FOOD

HOSE

49200	General purpose food quality - PVC FDA EU 10/2011 A+B+C AS 2070.....	H.52
4660L	Liquid food S&D - PVC - standard duty FDA EU 10/2011 A+B+C AS 2070.....	H.52
4680H	Liquid food S&D - PVC - heavy duty FDA EU 10/2011 A+B+C AS 2070.....	H.52
47200	General purpose food quality S&D - PVC FDA EU 10/2011 A+B+C AS 2070.....	H.53
452LH	Liquid food delivery 10 bar (150 psi) FDA arrêté du 09/11/94 D	H.54
402LH	Liquid food S&D 10 bar (150 psi) FDA arrêté du 09/11/94 D	H.54
410LL	Alcoholic beverages S&D 16 bar (240 psi) crush resistant - FDA arrêté du 09/11/94 D	H.54
412LE	Milk tanker 10 bar (150 psi) - hard wall FDA arrêté du 09/11/94 D	H.55
418LE	Milk tanker 10 bar (150 psi) - hard wall - crush resistant FDA arrêté du 09/11/94 D.....	H.55
455LE	Fat food delivery 10 bar (150 psi) FDA D.M. 21/03/73.....	H.56
455LL	Fat food delivery 10 bar (150 psi) FDA D.M. 21/03/73	H.56
405LE	Fat food S&D 10 bar (150 psi) FDA D.M. 21/03/73.....	H.57
405LL	Fat food S&D 10 bar (150 psi) FDA D.M. 21/03/73.....	H.57
405LH	Fat food S&D 10 bar (150 psi) FDA D.M. 21/03/73	H.57
417LE	Fat food S&D 16 bar (240 psi) - crush resistant FDA - D.M. 21/03/73.....	H.58
	Food hose identification table	H.59-61

HOSE & RECOMMENDED FITTING TABLE **A.44**

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Chapter SYMMETRIC GUILLEMIN	F.33-40
Chapter STORZ	F.43-45
Chapter TANKWAGEN	F.48-49
Chapter CAM & GROOVE	F.51-65
Chapter EN 14 420-5 / DIN 2817	F.71-72

hose

↔		↔		⌚		⤴		⚡		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	11	0,43	20	300				0,080	0,055	
8	5/16	13	0,51	15	225				0,095	0,065	
10	3/8	15	0,59	15	225				0,110	0,075	
13	1/2	19	0,75	10	150				0,165	0,110	
16	5/8	22	0,87	10	150				0,215	0,145	
19	3/4	25	1,00	10	150				0,255	0,175	
25	1	32	1,25	10	150				0,385	0,260	
30	1 3/16	38	1,50	7	100				0,515	0,350	
32	1 1/4	42	1,65	7	100				0,685	0,465	
38	1 1/2	48	1,89	7	100				0,810	0,545	
51	2	63	2,48	6	90				1,315	0,885	

6	1/4	12	0,47	20	300				0,100	0,070	
8	5/16	14	0,55	15	225				0,115	0,080	
10	3/8	16	0,63	15	225				0,135	0,090	
19	3/4	26	1,06	10	150				0,305	0,205	
25	1	33	1,34	10	150				0,445	0,300	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: General purpose food quality. Sterilize with 5% soda solution
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

fittings

↔		↔		⌚		⤴		⚡		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
20	13/16			8	120	90	3,50	70	0,230	0,155	
25	1			8	120	113	4,50	70	0,290	0,195	
30	1 3/16			7	100	135	5,25	70	0,360	0,245	
32	1 1/4			7	100	144	5,75	70	0,390	0,265	
35	1 3/8			7	100	158	6,25	70	0,440	0,300	
38	1 1/2			6	90	171	6,75	70	0,510	0,345	
40	1 9/16			6	90	180	7,00	70	0,540	0,365	
45	1 3/4			6	90	203	8,00	70	0,670	0,455	
51	2			5	75	230	9,00	70	0,760	0,515	
55	2 1/6			5	75	247	9,75	70	0,810	0,545	
60	2 3/8			5	75	270	10,50	70	0,920	0,620	
63	2 1/2			5	75	284	11,25	70	0,970	0,655	
70	2 3/4			5	75	315	12,50	70	1,160	0,780	
76	3			5	75	342	13,50	70	1,330	0,895	
80	3 1/8			4	60	360	14,00	70	1,450	0,975	
90	3 1/2			4	60	405	16,00	70	1,800	1,210	
102	4			4	60	459	18,00	70	2,190	1,475	
120	4 3/4			3	45	540	21,00	50	2,700	1,815	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: General purpose liquid food and alcoholic beverages suction and delivery - max 20% - Sterilize with 5% soda solution
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

appendix

↔		↔		⌚		⤴		⚡		♻️	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1			7	100	125	5,00	90	0,400	0,270	
32	1 1/4			7	100	160	6,25	90	0,520	0,350	
38	1 1/2			7	100	190	7,50	90	0,730	0,495	
40	1 9/16			7	100	200	8,00	90	0,750	0,505	
51	2			7	100	255	10,00	90	1,000	0,675	
60	2 3/8			7	100	300	12,00	90	1,450	0,975	
63	2 1/2			6	90	315	12,50	90	1,500	1,010	
76	3			5	75	380	15,00	90	1,900	1,280	
80	3 1/8			5	75	400	16,00	90	2,100	1,415	
102	4			4	60	510	20,00	90	3,300	2,220	
120	4 3/4			3	45	600	24,00	80	3,600	2,420	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Liquid food and alcoholic beverages suction and delivery - max 20%
 Sterilize with 5% soda solution
Safety factor: 3:1
Temperature: -5 °C +60 °C (+23 °F +140 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
10	3/8	16	0,63	15	225	40	1,50	90	0,170	0,115
13	1/2	19	0,75	7	100	52	2,00	85	0,205	0,138
14	9/16	20	0,79	6	90	56	2,25	85	0,220	0,150
16	5/8	22	0,87	6	90	64	2,50	85	0,250	0,170
18	23/32	26	1,02	6	90	72	2,75	85	0,320	0,215
20	13/16	28	1,10	5	75	80	3,00	85	0,340	0,230
22	7/8	30	1,18	5	75	88	3,50	85	0,380	0,255
25	1	33	1,30	5	75	100	4,00	85	0,530	0,360
30	1 3/16	38	1,50	4	60	120	4,75	85	0,620	0,420
32	1 1/4	40	1,57	4	60	128	5,00	85	0,655	0,440
35	1 3/8	45	1,77	4	60	140	5,50	85	0,800	0,540
38	1 1/2	48	1,89	4	60	152	6,00	85	0,855	0,570
40	1 9/16	50	1,97	3	45	160	6,25	85	0,895	0,605
45	1 3/4	55	2,17	3	45	180	7,00	80	1,100	0,740
51	2	61	2,40	3	45	204	8,00	80	1,230	0,830
60	2 3/8	72	2,83	2	30	240	9,50	80	1,700	1,140
63	2 1/2	75	2,95	2	30	252	10,00	80	1,775	1,190
70	2 3/4	84	3,31	2	30	280	11,00	80	2,030	1,365
76	3	90	3,54	2	30	304	12,00	70	2,450	1,650
80	3 1/8	94	3,70	2	30	320	12,50	70	2,565	1,720
90	3 1/2	104	4,09	2	30	360	14,00	70	3,000	2,020
102	4	116	4,57	2	30	408	16,00	70	3,480	2,340
105	4 1/8	121	4,76	3	45	420	16,50	90	4,250	2,860
152	6	172	6,77	2	30	608	24,00	70	7,300	4,910

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: General purpose liquid food and alcoholic beverages suction and delivery - max 20% - Sterilize with 5% soda solution

Safety factor: 3:1

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

↻		↻		⏰	↵		⏰		⏰	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	10	150				0,380	0,255
19	3/4	31	1,22	10	150				0,610	0,410
25	1	37	1,46	10	150				0,760	0,515
32	1 1/4	44	1,73	10	150				0,930	0,625
38	1 1/2	50	1,97	10	150				1,080	0,730
51	2	65	2,56	10	150				1,680	1,130
63	2 1/2	77	3,03	10	150				2,020	1,360
76	3	92	3,62	10	150				2,800	1,885

NA	LA	NEU	EMEA	SA	AP	AU
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IANESCO

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 SBR/EPDM - abrasion and ozone resistant
Use: Liquid food and alcoholic beverages delivery - max 50%. Sterilize with 110 °C (230 °F) steam for 10 minutes or with 5% soda solution
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↻		↻		⏰	↵		⏰		⏰	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1	37	1,46	10	150	75	3,00	100	0,910	0,615
38	1 1/2	50	1,97	10	150	114	4,50	100	1,250	0,845
51	2	63	2,48	10	150	153	6,00	100	1,610	1,085
76	3	88	3,46	10	150	228	9,00	90	2,530	1,705
102	4	116	4,57	10	150	306	12,00	90	3,510	2,360

NA	LA	NEU	EMEA	SA	AP	AU
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IANESCO

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 SBR/EPDM - abrasion and ozone resistant
Use: 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
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↻		↻		⏰	↵		⏰		⏰	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1	37	1,46	16	240	100	4	100	0,881	0,595
38	1 1/2	52	2,05	16	240	152	6	100	1,485	1,000
51	2	65	2,56	16	240	204	8	100	1,912	1,285
76	3	92	3,62	16	240	304	12	100	3,315	2,230

NA	LA	NEU	EMEA	SA	AP	AU
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IANESCO

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
Use: Liquid food and alcoholic beverages suction and delivery - max 95%. Special crush resistant construction. Sterilize with 130 °C (226 °F) steam for 30 minutes or with 5% soda solution
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	35	1,38	10	150	50	2,00	100	0,730	0,495	
32	1 1/4	42	1,65	10	150	64	2,50	100	0,900	0,605	
38	1 1/2	48	1,89	10	150	76	3,00	100	1,040	0,700	
40	1 9/16	50	1,97	10	150	80	3,00	100	1,090	0,735	
42	1 5/8	52	2,05	10	150	88	3,50	100	1,130	0,760	
51	2	61	2,40	10	150	100	4,00	100	1,420	0,955	
63	2 1/2	75	2,95	10	150	126	5,00	100	2,010	1,355	
76	3	88	3,46	10	150	228	9,00	90	2,590	1,745	
102	4	116	4,57	10	150	306	12,00	90	3,850	2,590	
NA		LA		NEU		EMEA		SA		AP AU	



IANESCO



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
Use: 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
Safety factor: 3:1
Temperature: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		⌚		⤴		⌚		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
40	1 9/16	53	2,09	10	150	120	5,00	70	1,040	0,700	
45	1 3/4	58	2,28	10	150	135	5,50	70	1,150	0,770	
51	2	64	2,52	10	150	153	6,00	70	1,290	0,870	
63	2 1/2	76	3,00	10	150	189	7,50	70	1,750	1,180	
76	3	92	3,62	10	150	228	9,00	70	2,400	1,615	
NA		LA		NEU		EMEA		SA		AP AU	



IANESCO



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
Use: 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
Safety factor: 3:1
Temperature: -40 °C +80 °C (-40 °F +176 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	23	0,91	10	150				0,380	0,255	
19	3/4	31	1,22	10	150				0,620	0,420	
25	1	37	1,46	10	150				0,770	0,520	
32	1 1/4	44	1,73	10	150				0,940	0,635	
38	1 1/2	50	1,97	10	150				1,100	0,740	
51	2	65	2,56	10	150				1,700	1,145	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Liquid and fat food-alcoholic beverages delivery - max 75%.
 Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
38	1 1/2	48	1,89	10	150				0,880	0,595	
51	2	63	2,48	10	150				1,410	0,950	
76	3	88	3,46	10	150				2,050	1,380	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Liquid and fat food-alcoholic beverages delivery - max 75%.
 Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	10	150	57	2,25	100	0,740	0,500	
25	1	37	1,46	10	150	75	3,00	100	0,920	0,620	
32	1 1/4	44	1,73	10	150	96	3,75	100	1,090	0,735	
38	1 1/2	50	1,97	10	150	114	4,50	100	1,270	0,855	
51	2	63	2,48	10	150	153	6,00	100	1,640	1,105	
63	2 1/2	75	2,95	10	150	189	7,50	90	2,150	1,445	
76	3	88	3,46	10	150	228	9,00	90	2,580	1,735	
102	4	116	4,57	10	150	306	12,00	90	3,580	2,410	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: 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
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	37	1,46	10	150	75	3,00	100	0,900	0,605	
38	1 1/2	50	1,97	10	150	114	4,50	100	1,240	0,835	
51	2	63	2,48	10	150	153	6,00	100	1,600	1,080	
76	3	88	3,46	10	150	228	9,00	90	2,530	1,705	
102	4	116	4,57	10	150	306	12,00	90	3,510	2,360	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: 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
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
38	1 1/2	50	1,97	10	150	114	4,50	100	1,270	0,855	
51	2	63	2,48	10	150	153	6,00	100	1,640	1,105	
63	2 1/2	75	2,95	10	150	189	7,50	90	2,160	1,455	
76	3	88	3,46	10	150	228	9,00	90	2,580	1,735	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: 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
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊕	⌒		⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
38	1 1/2	52	2,05	16	240	152	6	100	1,438	0,970
51	2	65	2,56	16	240	204	8	100	1,866	1,255
63	2 1/2	77	3,03	16	240	252	10	100	2,401	1,615
76	3	92	3,62	16	240	304	12	100	3,228	2,170
NA	LA	NEU	EMEA	SA	AP	AU				

**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**Use:** 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

Safety factor: 3:1**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

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	MPPO (Tenax)	dry foods






Alfagomma PVC food hoses are totally phthalate 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.



HOSE IDENTIFICATION TABLE

HOSE	TUBE	MAX TEMP. (°C)	WP (bar)	STERILIZATION	TECHNICAL FEATURES AND NORMS					
					 PHTHALATE FREE	 FDA TITLE 21	 2004/1935 EC	 10/2011 EC	 2006/2023 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		◆	◆				
	452LH	NR	+80	10	Steam 110°C / 10' 5% Soda	◆	◆	◆		◆	IANESCO
	402LH	NR	+80	10	Steam 110°C / 10' 5% Soda	◆	◆	◆		◆	IANESCO
	410LL	CIIR	+80	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	+80	10	Steam 130°C / 30' 5% Soda	◆	◆	◆		◆	
	405LE	NBR	+80	10	Steam 130°C / 30' 5% Soda	◆	◆	◆		◆	
	417LE	NBR	+80	16	Steam 130°C / 30' 5% Soda	◆	◆	◆		◆	
	5090E	UPE	+100	16	Steam 110°C / 10' 5% Soda	◆	◆	◆	A+B+C+D2	◆	
	903LE	EPDM	+180	10	Steam 130°C / 30' 5% Soda	◆	◆				
	720LA	NR	+80	10	5% Soda	◆	◆				
	760LA	NR	+80	5	5% Soda	◆	◆				

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	FOOD ENVIRONMENT
								◆			
	◆							◆			
	◆							◆			
	◆							◆			
	◆							◆			
								◆			◆
											◆
		◆						◆			
		◆						◆			
				◆			◆	◆			
					◆	◆		◆			
					◆	◆		◆			
CERISIE			◆				◆	◆	◆		
CERISIE			◆				◆	◆	◆		
CERISIE			◆				◆	◆	◆		
				◆			◆	◆	◆	◆	
	◆						◆	◆			
										◆	
										◆	

hose

fittings

appendix

GUIDELINES FOR CLEANING OF 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 455LE 405LE 417LE 410LL	Drinking Water 80 °C 10 min	Steam	—	110 °C	30 min	Drinking Water 80 °C 10 min
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 417LE 410LL	Steam	—	130 °C	30 min	
	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

HOSE

760LA	Bulk food delivery 5 bar (75 psi) - FDA.....	H.64
760LB	Bulk food delivery 5 bar (75 psi) - FDA.....	H.64
720LA	Bulk food S&D 10 bar (150 psi) - FDA	H.65
720LG	Bulk food S&D 10 bar (150 psi) - FDA	H.65
967OL	Fish handling - PVC - super elastic	H.66
949AA	Fish pump 3 bar (45 psi).....	H.66

HOSE & RECOMMENDED FITTING TABLEA.45

FITTINGS

Chapter HYGIENIC-FOOD.....F.23-26

Chapter SYMMETRIC GUILLEMIN

Chapter CAM & GROOVE.....F.51-65



↔		↔		⏴		⤴		⌘		⏴	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
90	3 1/2	102	4,02	5	75				2,130	1,435	
110	4 5/16	122	4,80	5	75				2,550	1,715	

102	4	120	4,72	5	75				3,180	2,140
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75	3	93	3,66	5	75				2,380	1,600
100	4	120	4,72	5	75				3,550	2,390

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Bulk food and material delivery.

Specially designed for grain, flour and plastic pellets transfer

Safety factor: 3:1

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

↔		↔		⏴		⤴		⌘		⏴	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
102	4	118	4,65	5	75				3,140	2,115	

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Bulk food and material delivery.

Specially designed for grain, flour and plastic pellets transfer

Safety factor: 3:1

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

↔		↔		⊕		⤴		⌋		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	92	3,62	10	150	228	9,00	90	2,680	1,805	
90	3 1/2	106	4,17	10	150	270	10,50	90	3,320	2,235	
102	4	118	4,65	10	150	306	12,00	90	3,700	2,490	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Bulk food and material suction and delivery. Specially designed for grain, flour and plastic pellets transfer
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊕		⤴		⌋		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	67	2,64	10	150	153	6,00	100	1,830	1,230	
76	3	92	3,62	10	150	228	9,00	90	2,840	1,910	
102	4	118	4,65	10	150	306	12,00	90	3,900	2,625	
127	5	145	5,71	5	75	508	20,00	80	5,660	3,805	
152	6	170	6,69	5	75	608	24,00	80	7,020	4,720	
203	8	223	8,78	5	75	812	32,00	70	10,430	7,010	
NA	LA	NEU	EMEA	SA	AP	AU					



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 SBR/EPDM - abrasion and ozone resistant
Use: Bulk food and material suction and delivery. Specially designed for grain, flour and plastic pellets transfer
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚	⌚	↷		⌚	⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
152	6			2	30	380	15,00	95	5,600	3,765
160	6 5/16			2	30	400	16,00	95	6,450	4,335
203	8			2	30	609	24,00	95	9,200	6,185
254	10			2	30	1016	40,00	95	14,500	9,745
305	12			1	15	1525	60,00	95	19,000	12,770
NA		LA		NEU		EMEA		SA	AP	AU



9670L Fish handling - PVC - super elastic

Construction: Transparent PVC - abrasion and ozone resistant

Reinforcement: White shock resistant rigid PVC

Use: Fish transfer on fish farms

Safety factor: 3:1

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

↔		↔		⌚	⌚	↷		⌚	⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
254	10	262	10,31	3	45				5,100	3,430
305	12	313	12,32	3	45				6,100	4,100
355	14	367	14,45	3	45				8,910	5,990
406	16	418	16,46	3	45				11,020	7,410
457	18	469	18,46	3	45				12,380	8,320
NA		LA		NEU		EMEA		SA	AP	AU



949AA Fish pump 3 bar (45 psi)

Tube: Black NBR - oil, abrasion and sea water resistant

Reinforcement: High tensile textile cords

Cover: Black conductive NBR/PVC - oil, abrasion, ozone and sea water resistant

Use: Fish transfer from fishing net to ship deck

Safety factor: 3:1

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



BULK MATERIAL

HOSE

760AA	Bulk material delivery 5 bar (75 psi)	H.68
766AA	Bulk material delivery 10 bar (150 psi)	H.68
720AA	Bulk material S&D 10 bar (150 psi)	H.68
767AL	Bulk material S&D - PVC - polyurethane lined	H.69
780AA	Bulk material S&D - PVC	H.69

HOSE & RECOMMENDED FITTING TABLEA.45

FITTINGS

Chapter WATER	F.3-21
Chapter SYMMETRIC GUILLEMIN	F.33-40
Chapter STORZ	F.43-45
Chapter CAM & GROOVE.....	F.51-65
Chapter COMBINATION NIPPLE	F.67-69



↔		↔		⏱		⤴		⚡		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
90	3 1/2	102	4,02	5	75				2,100	1,415	
110	4 5/16	122	4,80	5	75				2,510	1,690	
102	4	114	4,49	5	75				2,350	1,580	
102	4	118	4,65	5	75				2,760	1,855	
102	4	120	4,72	5	75				3,180	2,140	
127	5	145	5,71	5	75				3,860	2,595	
75	3	93	3,66	5	75				2,350	1,580	
90	3 1/2	110	4,33	5	75				3,200	2,155	
100	4	120	4,72	5	75				3,510	2,360	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Bulk material delivery.
 Specially designed for dry cement, grain and animal feed transfer
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏱		⤴		⚡		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	92	3,62	10	150				2,160	1,455	
102	4	118	4,65	10	150				2,910	1,960	
127	5	143	5,63	10	150				3,580	2,410	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Bulk material delivery in heavy duty applications.
 Specially designed for dry cement, grain and animal feed transfer
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏱		⤴		⚡		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	65	2,56	10	150	153	6,00	100	1,430	0,965	
63	2 1/2	77	3,03	10	150	189	7,50	90	1,900	1,280	
76	3	90	3,54	10	150	228	9,00	90	2,280	1,535	
102	4	116	4,57	10	150	306	12,00	90	3,190	2,145	
127	5	143	5,63	5	75	508	20,00	80	4,750	3,195	
152	6	168	6,61	5	75	608	24,00	80	5,960	4,010	
203	8	221	8,70	5	75	812	32,00	70	8,990	6,045	
76	3	92	3,62	10	150	228	9,00	90	2,600	1,750	
90	3 1/2	106	4,17	10	150	270	10,50	90	3,230	2,175	
102	4	118	4,65	10	150	306	12,00	90	3,600	2,420	
127	5	145	5,71	5	75	508	20,00	80	5,270	3,545	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Bulk material suction and delivery in heavy duty applications.
 Specially designed for dry cement, grain and animal feed transfer
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
51	2			3	45	102	4	90	0,900	0,605
63	2 1/2			3	45	126	5	90	1,469	0,990
76	3			3	45	152	6	90	1,830	1,230
102	4			2	30	204	8	90	2,980	2,005
127	5			2	30	254	10	90	4,199	2,825
152	6			2	30	304	12	90	5,149	3,465

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Bulk material suction and low pressure delivery-gravity feed. Specially designed for gravel, cement and iron ore transfer

Safety factor: 3:1

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

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
38	1 1/2	47	1,85	2	30	80	3,00	100	0,570	0,380
51	2	61	2,40	2	30	120	4,75	100	0,860	0,580
63	2 1/2	75	2,95	2	30	200	8,00	100	1,090	0,730
76	3	90	3,54	1	15	240	9,50	100	1,390	0,930
102	4	119	4,69	1	15	320	12,50	100	2,560	1,720
127	5	146	5,75	1	15	480	19,00	100	3,320	2,230
152	6	175	6,89	1	15	720	28,50	100	4,890	3,290

NA	LA	NEU	EMEA	SA	AP	AU
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780AA

Bulk material S&D - PVC

Construction: Black antistatic synthetic elastomer

Reinforcement: Black shock resistant thermoplastic elastomer

Use: Bulk material suction and low pressure delivery-gravity feed. Specially designed for gravel, cement and iron ore transfer

Safety factor: 4:1

Temperature: -15 °C +60 °C (+5 °F +140 °F)



SANDBLAST

HOSE

750AA	Sandblast 10 bar (150 psi)	H.72
750AH	Sandblast 10 bar (150 psi)	H.72
750AG	Sandblast 10 bar (150 psi)	H.72
753AA	Sandblast 10 bar (150 psi) - premium quality ...	H.72



FITTINGS

Chapter SANDBLAST	F.77-78
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↔		↔		⌚		⤴		⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
19	3/4	33	1,30	10	150				0,710	0,480
19	3/4	35	1,38	10	150				0,830	0,560
25	1	39	1,54	10	150				0,870	0,585
32	1 1/4	48	1,89	10	150				1,240	0,835
38	1 1/2	55	2,17	10	150				1,650	1,110
40	1 9/16	60	2,36	10	150				1,930	1,300
51	2	71	2,80	10	150				2,400	1,615
19	3/4	38	1,50	10	150				1,000	0,675
25	1	48	1,89	10	150				1,540	1,035
32	1 1/4	55	2,17	10	150				1,830	1,230
38	1 1/2	60	2,36	10	150				2,080	1,400
51	2	73	2,87	10	150				2,630	1,770
NA	LA	NEU	EMEA	SA	AP	AU				



750AA Sandblast 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
Use: Abrasive material blasting
Safety factor: 3:1
Temperature: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		⌚		⤴		⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	27	1,06	10	150				0,560	0,380
19	3/4	33	1,30	10	150				0,710	0,480
25	1	39	1,54	10	150				0,880	0,595
32	1 1/4	48	1,89	10	150				1,240	0,835
38	1 1/2	55	2,17	10	150				1,660	1,120
51	2	71	2,80	10	150				2,420	1,630
NA	LA	NEU	EMEA	SA	AP	AU				



750AH Sandblast 10 bar (150 psi)

Tube: Black conductive NR - abrasion resistant
Reinforcement: High tensile textile cords
Cover: Red SBR/EPDM - abrasion and ozone resistant - pin pricked
Use: Abrasive material blasting
Safety factor: 3:1
Temperature: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		⌚		⤴		⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
19	3/4	38	1,50	10	150				1,010	0,680
25	1	48	1,89	10	150				1,540	1,035
32	1 1/4	55	2,17	10	150				1,840	1,240
38	1 1/2	60	2,36	10	150				2,090	1,405
NA	LA	NEU	EMEA	SA	AP	AU				



750AG Sandblast 10 bar (150 psi)

Tube: Black conductive NR - abrasion resistant
Reinforcement: High tensile textile cords
Cover: Green SBR/EPDM - abrasion and ozone resistant - pin pricked
Use: Abrasive material blasting
Safety factor: 3:1
Temperature: -40 °C +80 °C (-40 °F +176 °F)

↔		↔		⌚		⤴		⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	27	1,06	10	150				0,500	0,340
19	3/4	33	1,30	10	150				0,640	0,435
25	1	39	1,54	10	150				0,790	0,535
32	1 1/4	48	1,89	10	150				1,140	0,770
38	1 1/2	55	2,17	10	150				1,490	1,005
51	2	71	2,80	10	150				2,140	1,440
25	1	48	1,89	10	150				1,400	0,945
32	1 1/4	55	2,17	10	150				1,670	1,125
38	1 1/2	60	2,36	10	150				1,900	1,280
51	2	73	2,87	10	150				2,410	1,620
19	3/4	40	1,57	10	150				1,030	0,695
51	2	76	2,99	10	150				2,650	1,785
NA	LA	NEU	EMEA	SA	AP	AU				



753AA Sandblast 10 bar (150 psi) premium quality

Tube: Premium 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
Use: Abrasive material blasting. Designed for long service life in heavy duty applications
Safety factor: 3:1
Temperature: -40 °C +80 °C (-40 °F +176 °F)



PLASTER

HOSE

764OL	Plaster conveyance - polyurethane	H.74
752AA	Plaster 10 bar (150 psi).....	H.74
757AA	Plaster 40 bar (600 psi).....	H.74
758AA	Plaster 55 bar (800 psi).....	H.74
758AE	Plaster 55 bar (800 psi).....	H.74

HOSE & RECOMMENDED FITTING TABLEA.46

FITTINGS

Chapter WATER / Cardan.....	F.19
Chapter STORZ	F.43-45
Chapter MORTAR	F.79-80



↔		↔		⏱		⤴		⚡		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
45	1 3/4					203	8,00	60	0,680	0,460	
NA	LA	NEU	EMEA	SA	AP	AU					



7640L

Plaster conveyance - polyurethane

Construction: Transparent polyurethane - abrasion and ozone resistant

Reinforcement: White shock resistant rigid PVC

Use: Pneumatic conveyance of pre-mixed synthetic plaster from silo to plaster pumping machine.

Assembly complete with fittings also available

Safety factor: 3:1

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

↔		↔		⏱		⤴		⚡		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
60	2 3/8	80	3,15	10	150				2,350	1,580	
65	2 9/16	85	3,35	10	150				2,560	1,725	
90	3 1/2	113	4,45	10	150				4,180	2,810	
102	4	127	5,00	10	150				4,750	3,195	
NA	LA	NEU	EMEA	SA	AP	AU					



752AA

Plaster 10 bar (150 psi)

Tube: Black conductive NR - abrasion resistant

Reinforcement: High tensile textile cords

Cover: Black conductive SBR/NR - abrasion and ozone resistant - pin pricked

Use: Plaster and sand/cement mix pumping.

Also suitable for heavy duty sandblast

Safety factor: 3:1

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

↔		↔		⏱		⤴		⚡		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	38	1,50	40	600				0,710	0,480	
32	1 1/4	46	1,81	40	600				0,890	0,600	
35	1 3/8	49	1,93	40	600				0,980	0,660	
38	1 1/2	54	2,13	40	600				1,210	0,815	
51	2	67	2,64	40	600				1,620	1,090	
NA	LA	NEU	EMEA	SA	AP	AU					



757AA

Plaster 40 bar (600 psi)

Tube: Black conductive NR - abrasion resistant

Reinforcement: High tensile textile cords

Cover: Black conductive SBR/NR - abrasion and ozone resistant

Use: Plaster pumping

Safety factor: 2,5:1

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

↔		↔		⏱		⤴		⚡		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	40	1,57	55	825				0,890	0,600	
32	1 1/4	49	1,93	55	800				1,250	0,845	
38	1 1/2	58	2,28	55	800				1,700	1,145	
51	2	71	2,80	55	800				2,210	1,490	
NA	LA	NEU	EMEA	SA	AP	AU					



758AA

Plaster 55 bar (800 psi)

Tube: Black conductive NR - abrasion resistant

Reinforcement: High tensile textile cords

Cover: Black conductive SBR/NR - abrasion and ozone resistant

Use: Plaster pumping

Safety factor: ≤ 38 mm 2,5:1 51 mm 2:1

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

↔		↔		⏱		⤴		⚡		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	40	1,57	55	825				0,950	0,640	
32	1 1/4	49	1,93	55	800				1,430	0,965	
38	1 1/2	58	2,28	55	800				1,960	1,320	
51	2	71	2,80	55	800				2,550	1,715	
NA	LA	NEU	EMEA	SA	AP	AU					



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

Use: Plaster pumping

Safety factor: ≤ 38 mm 2,5:1 51 mm 2:1

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



CONCRETE

HOSE

754AA	Concrete vibrator 10 bar (150 psi)	H.76
737AA	Concrete pumping 40 bar (600 psi)	H.77
740AA	Concrete pumping 85 bar (1275 psi) - heavy duty steel reinforced.....	H.77
741AA	Concrete pumping 85 bar (1275 psi) - extra service steel reinforced.....	H.77

HOSE & RECOMMENDED FITTING TABLEA.46

FITTINGS

Chapter CONCRETEF.81-83



mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	10	150				0,690	0,465	
25	1	39	1,54	10	150				1,020	0,690	
NA		LA		NEU		EMEA		SA		AP AU	



754AA

Concrete vibrator 10 bar (150 psi)

Tube: Black SBR

Reinforcement: High tensile textile cords

Cover: Black SBR - abrasion and ozone resistant

Use: Pneumatic concrete vibrators

Safety factor: 4:1

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

↔		↔		⏱		⤴		⌘		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	69	2,72	40	600				1,840	1,240	
76	3	104	4,09	40	600				4,390	2,955	
90	3 1/2	118	4,65	40	600				5,150	3,465	
102	4	130	5,12	40	600				5,830	3,920	

NA	LA	NEU	EMEA	SA	AP	AU
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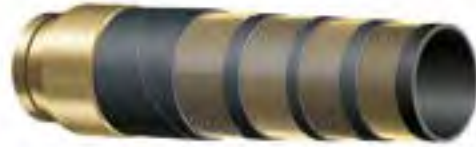


737AA
Concrete pumping 40 bar (600 psi)

Tube: Black conductive NR - abrasion resistant
Reinforcement: High tensile textile cords
Cover: Black conductive SBR/NR - abrasion and ozone resistant
Use: Concrete pumping
Safety factor: 2,5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏱		⤴		⌘		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	69	2,72	85	1275	255	10,00		2,130	1,435	
63	2 1/2	85	3,35	85	1275	265	10,50		3,340	2,245	
76	3	100	3,94	85	1275	380	15,00		4,540	3,055	
90	3 1/2	116	4,57	85	1275	450	17,50		5,490	3,690	
102	4	126	4,96	85	1275	510	20,00		6,530	4,390	
127	5	153	6,02	85	1275	635	25,00		9,740	6,550	
127	5	155	6,10	85	1275	635	25,00		10,340	6,950	
152	6	184	7,24	85	1275	760	30,00		13,780	9,265	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: High pressure concrete pumping
Safety factor: 2:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏱		⤴		⌘		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	69	2,72	85	1275	255	10,00		2,590	1,745	
63	2 1/2	85	3,35	85	1275	325	13,00		3,770	2,535	
76	3	100	3,94	85	1275	380	15,00		4,970	3,345	
90	3 1/2	116	4,57	85	1275	450	17,50		7,220	4,855	
102	4	128	5,04	85	1275	510	20,00		7,660	5,150	
127	5	155	6,10	85	1275	635	25,00		10,250	6,890	

NA	LA	NEU	EMEA	SA	AP	AU
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741AA
Concrete pumping 85 bar (1275 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
Use: High pressure concrete pumping.
 Designed for long service life in heavy duty applications
Safety factor: 2,5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)



ACID, CHEMICAL & MULTIPURPOSE

HOSE

984AH	Multipurpose 20 bar (300 psi)	H.80
974AH	Multipurpose 17 bar (250 psi) - non conductive	H.80
975AH	Multipurpose 20 bar (300 psi) - non conductive	H.80
954AH	Multipurpose 20 bar (300 psi) - non conductive	H.80
976AB	General purpose 20 bar (300 psi) - EPDM.....	H.81
956AB	General purpose 20 bar (300 psi) - EPDM.....	H.81
503AA	Acid-chemical S&D 16 bar (240 psi) - EPDM exceeds EN 12115.....	H.82
505OG	Acid-chemical S&D 16 bar (240 psi) - XLPE.....	H.82
529AA	Acid-chemical S&D 16 bar (240 psi) - UPE EN 12115.....	H.83
509OE	Acid-chemical S&D 16 bar (240 psi) - UPE EN 12115.....	H.83
519OE	Acid-chemical S&D 16 bar (240 psi) - UPE corrugated - FDA.....	H.83
538AA	Tank cleaning 20 bar (300 psi) - EPDM textile braided.....	H.83
5J551	Acid-chemical S&D 10 bar (150 psi) - standard duty BS 5842 arrêté ADR annexe 1	H.84
5J553	Acid-chemical S&D 10 bar (150 psi) - standard duty BS 5842 arrêté ADR annexe 1	H.84
5N551	Acid-chemical S&D 14 bar (200 psi) - heavy duty BS 5842 arrêté ADR annexe 1	H.85
5N331	Acid-chemical S&D 14 bar (200 psi) - heavy duty PTFE - BS 5842 arrêté ADR annexe 1	H.85
5N333	Acid-chemical S&D 14 bar (200 psi) - heavy duty PTFE - BS 5842 arrêté ADR annexe 1	H.85
5J533	Tank cleaning 10 bar (150 psi) BS 5842 arrêté ADR annexe 1	H.85
5J551 EN	Acid-Chemical S&D - 10 bar (150 psi) - standard duty EN 13765 arrêté TMD	H.86
5J553 EN	Acid-Chemical S&D - 10 bar (150 psi) - standard duty EN 13765 arrêté TMD	H.86
5N333 EN	Acid-Chemical S&D - 14 bar (200 psi) - heavy duty PTFE - EN 13765 arrêté TMD.....	H.87
5J533 EN	Tank cleaning 10 bar (150 psi) EN 13765 arrêté TMD	H.87

HOSE & RECOMMENDED FITTING TABLEA.47

FITTINGS

Chapter SYMMETRIC GUILLEMIN	F.33-40
Chapter TANKWAGEN.....	F.47-49
Chapter CAM & GROOVE.....	F.51-65
Chapter COMBINATION NIPPLE/ Male with pre-crimped ferrule.....	F.69
Chapter EN 14 420-5 / DIN 2817	F.72
Chapter FLANGE	F.85-87
Chapter COMPOSITE HOSE FITTINGS.....	F.103-108
HYDRAULIC FITTINGS - AG Hydraulic catalogue	

↔		↔		⌚	⌚	⌒		⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	13	0,51	20	300	48	2,00		0,140	0,095	
8	5/16	15	0,59	20	300	64	2,50		0,170	0,115	
10	3/8	17	0,67	20	300	80	3,00		0,205	0,140	
13	1/2	21	0,83	20	300	104	4,00		0,275	0,185	
16	5/8	25	0,98	20	300	128	5,00		0,375	0,255	
19	3/4	29	1,14	20	300	152	6,00		0,505	0,340	
25	1	35	1,38	20	300	200	8,00		0,627	0,421	
NA		LA		NEU		EMEA		SA		AP	



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
Use: Compressed air, water, fuel and oil delivery in general industrial applications
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⌚	⌚	⌒		⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	13	0,51	17	255	48	2,00		0,120	0,080	
10	3/8	17	0,67	17	255	64	2,50		0,250	0,170	
13	1/2	21	0,83	17	255	104	4,00		0,360	0,245	
16	5/8	25	0,98	17	255	128	5,00		0,420	0,285	
19	3/4	29	1,14	17	255	152	6,00		0,540	0,365	
25	1	35	1,38	17	255	200	8,00		0,730	0,495	
NA		LA		NEU		EMEA		SA		AP	



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
Use: Premium quality compressed air, water, fuel and oil delivery in general industrial applications
Safety factor: 4:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⌚	⌚	⌒		⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
6	1/4	16	0,63	20	300	48	2,00		0,240	0,160	
10	3/8	18	0,71	20	300	80	3,00		0,270	0,180	
13	1/2	21	0,83	20	300	104	4,00		0,370	0,250	
19	3/4	29	1,14	20	300	152	6,00		0,620	0,420	
25	1	36	1,42	20	300	200	8,00		0,940	0,635	
NA		LA		NEU		EMEA		SA		AP	



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
Use: Premium quality compressed air, water, fuel and oil delivery in general industrial applications
Safety factor: 4:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⌚	⌚	⌒		⌒	⌒	⌒	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
32	1 1/4	44	1,73	20	300				0,990	0,670	
38	1 1/2	50	1,97	20	300				1,150	0,775	
51	2	65	2,56	20	300				1,510	1,015	
NA		LA		NEU		EMEA		SA		AP	



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
Use: Premium quality compressed air, water, fuel and oil delivery in general industrial applications
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊕	↷		⊕	⊕		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
6	1/4	13	0,51	20	300				0,130	0,087
8	5/16	15	0,59	20	300				0,160	0,110
10	3/8	17	0,67	20	300				0,190	0,130
13	1/2	21	0,83	20	300				0,270	0,180
16	5/8	25	0,98	20	300				0,360	0,245
19	3/4	29	1,14	20	300				0,460	0,310
25	1	35	1,38	20	300				0,580	0,390

NA LA **NEU** EMEA SA AP AU



976AB

General purpose 20 bar (300 psi) - EPDM

Tube: Black conductive EPDM
Reinforcement: High tensile textile cords
Cover: Grey EPDM - abrasion and ozone resistant
Use: Air, water and mild chemicals delivery in general industrial applications
Safety factor: 3:1
Temperature: -40 °C +100 °C (-40 °F +212 °F)

↔		↔		⊕	↷		⊕	⊕		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
32	1 1/4	44	1,73	20	300				0,930	0,625
38	1 1/2	52	2,05	20	300				1,080	0,730
51	2	66	2,60	20	300				1,650	1,110

NA LA **NEU** EMEA SA AP AU



956AB

General purpose 20 bar (300 psi) - EPDM

Tube: Black conductive EPDM
Reinforcement: High tensile textile cords
Cover: Grey EPDM - abrasion and ozone resistant
Use: Air, water and mild chemicals delivery in general industrial applications
Safety factor: 3:1
Temperature: -40 °C +100 °C (-40 °F +212 °F)

hose

fittings

appendix

↔		↔		⏏		⤴		⚡		⚫			
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft			
19	3/4	31	1,22	16	240	125	5,00	90	0,690	0,465			
25	1	37	1,46	16	240	150	6,00	90	0,840	0,565			
32	1 1/4	44	1,73	16	240	175	7,00	90	1,030	0,695			
38	1 1/2	51	2,01	16	240	225	9,00	90	1,180	0,795			
50	2	66	2,60	16	240	275	11,00	90	1,730	1,165			
51	2	67	2,64	16	240	275	11,00	90	1,760	1,850			
63	2 1/2	79	3,11	16	240	300	12,00	90	2,330	1,570			
75	3	91	3,58	16	240	350	14,00	80	2,760	1,855			
76	3	92	3,62	16	240	350	14,00	80	2,790	1,875			
100	4	116	4,57	16	240	450	17,50	80	3,720	2,500			
102	4	118	4,65	16	240	450	17,50	80	3,780	2,545			
NA		LA		NEU		EMEA		SA		AP		AU	



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

Use: Acid and chemical suction and delivery

Safety factor: 4:1

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

↔		↔		⏏		⤴		⚡		⚫			
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft			
19	3/4	31	1,22	16	240	188	7,50	90	0,670	0,455			
25	1	37	1,46	16	240	225	9,00	90	0,820	0,555			
32	1 1/4	44	1,73	16	240	263	10,25	90	0,980	0,660			
38	1 1/2	50	1,97	16	240	338	13,25	90	1,130	0,760			
51	2	63	2,48	16	240	413	16,25	90	1,480	0,995			
63	2 1/2	77	3,03	16	240	450	17,50	90	2,270	1,530			
76	3	92	3,62	16	240	525	20,75	80	2,720	1,830			
102	4	118	4,65	16	240	675	26,50	80	3,710	2,495			
NA		LA		NEU		EMEA		SA		AP		AU	



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

Use: Acid and chemical suction and delivery.

Suitable for 90% of existing chemicals

Safety factor: 3:1

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

↔		↔		⊕		⌒		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	16	240	188	7,50	90	0,680	0,460	
25	1	37	1,46	16	240	225	9,00	90	0,830	0,560	
32	1 1/4	44	1,73	16	240	263	10,25	90	1,010	0,680	
38	1 1/2	51	2,01	16	240	338	13,25	90	1,160	0,780	
50	2	66	2,6	16	240	413	16,25	90	1,820	1,225	
51	2	67	2,64	16	240	413	16,25	90	1,850	1,245	
75	3	91	3,58	16	240	525	20,75	80	2,880	1,940	
76	3	92	3,62	16	240	525	20,75	80	2,910	1,960	
100	4	116	4,57	16	240	675	26,50	80	3,870	2,605	
102	4	118	4,65	16	240	675	26,50	80	3,930	2,645	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Acid and chemical suction and delivery. Suitable for 98% of existing chemicals
Safety factor: 4:1
Temperature: -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

↔		↔		⊕		⌒		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	16	240	188	7,50	90	0,600	0,405	
25	1	37	1,46	16	240	225	9,00	90	0,730	0,495	
32	1 1/4	44	1,73	16	240	263	10,25	90	0,880	0,595	
38	1 1/2	50	1,97	16	240	338	13,25	90	1,010	0,680	
40	1 9/16	52	2,05	16	240	338	13,25	90	1,060	0,715	
51	2	63	2,48	16	240	413	16,25	90	1,340	0,905	
63	2 1/2	77	3,03	16	240	450	17,50	90	2,090	1,405	
76	3	92	3,62	16	240	525	20,75	80	2,840	1,910	
102	4	118	4,65	16	240	675	26,50	80	3,870	2,605	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Acid and chemical suction and delivery. Suitable for 98% of existing chemicals.
Safety factor: 3:1
Temperature: -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

↔		↔		⊕		⌒		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2			16	240	153	6,00	90	1,390	0,935	
76	3			16	240	228	9,00	90	2,500	1,685	
102	4			16	240	306	12,00	90	4,090	2,750	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Acid and chemical suction and delivery. Suitable for 98% of existing chemicals.
 Special construction for maximum flexibility
Safety factor: 3:1
Temperature: -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

↔		↔		⊕		⌒		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
38	1 1/2	54	2,13	20	300	304	12,00		1,380	0,930	
51	2	67	2,68	20	300	408	16,00		1,730	1,160	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Acid and chemical delivery in storage tanks cleaning applications.
Safety factor: 3:1
Temperature: -30 °C +100 °C (-22 °F +212 °F) depending on conveyed chemical

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	37	1,46	10	150	100	4,00	90	0,940	0,630	
40	1 1/2	52	2,05	10	150	140	5,50	90	1,100	0,740	
50	2	62	2,44	10	150	150	6,00	90	1,450	0,970	
63*	2 1/2	77	3,03	10	150	175	7,00	90	2,050	1,380	
65	2 5/8	77	3,03	10	150	175	7,00	90	2,250	1,510	
75*	3	89	3,50	10	150	250	10,00	90	2,400	1,610	
80	3 1/8	93	3,66	10	150	250	10,00	90	3,100	2,080	
100	4	121	4,76	10	150	350	14	90	4,4	2,95	
NA		LA		NEU		EMEA		SA		AP AU	

* Pitch for UK market



5J551

Acid-chemical S&D 10 bar (150 psi) - standard duty BS 5842

Inner wire: Polypropylene coated steel wire
Tube: Polypropylene film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Galvanised steel wire
Use: Acid and chemical suction and delivery. Specially designed for tank truck applications
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	37	1,46	10	150	100	4,00	90	0,940	0,630	
32	1 1/4	44	1,73	10	150	140	5,50	90	1,050	0,700	
40	1 1/2	52	2,05	10	150	140	5,50	90	1,100	0,740	
50	2	62	2,44	10	150	150	6,00	90	1,450	0,970	
65	2 1/2	77	3,03	10	150	175	7,00	90	2,250	1,510	
80	3 1/8	93	3,66	10	150	250	10,00	90	3,100	2,080	
100	4	121	4,76	10	150	350	14,00	90	5,300	3,560	
NA		LA		NEU		EMEA		SA		AP AU	



5J553

Acid-chemical S&D 10 bar (150 psi) - standard duty BS 5842

Inner wire: Polypropylene coated steel wire
Tube: Polypropylene film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Stainless steel wire
Use: Acid and chemical suction and delivery. Specially designed for tank truck applications
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↻		↻		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1	37	1,46	14	200	100	4,00	90	0,940	0,630
40	1 1/2	53	2,09	14	200	140	5,50	90	1,150	0,770
50	2	63	2,48	14	200	150	6,00	90	1,500	1,010
63*	2 1/2	78	3,07	14	200	175	7,00	90	2,100	1,410
65	2 5/8	78	3,07	14	200	175	7,00	90	2,300	1,540
75*	3	90	3,54	14	200	250	10,00	90	2,500	1,680
80	3 1/8	94	3,70	14	200	250	10,00	90	3,150	2,110
100	4	122	4,80	14	200	350	14,00	90	5,400	3,620

* Pitch for UK market

NA	LA	NEU	EMEA	SA	AP	AU
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5N551

Acid-chemical S&D 14 bar (200 psi) - heavy duty BS 5842

Inner wire: Polypropylene coated steel wire
Tube: Polypropylene film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Galvanised steel wire
Use: Acid and chemical suction and delivery. Specially designed for tank truck applications
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↻		↻		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
40	1 1/2	53	2,09	14	200	140	5,50	90	1,300	0,870
50	2	63	2,48	14	200	150	6,00	90	1,700	1,140
63*	2 1/2	78	3,07	14	200	175	7,00	90	2,300	1,540
65	2 5/8	78	3,07	14	200	175	7,00	90	2,500	1,680
75*	3	90	3,54	14	200	250	10,00	90	2,700	1,810
80	3 1/8	94	3,70	14	200	250	10,00	90	3,500	2,350
100	4	122	4,80	14	200	350	14,00	90	6,200	4,160

* Pitch for UK market

NA	LA	NEU	EMEA	SA	AP	AU
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5N331

Acid-chemical S&D 14 bar (200 psi) - heavy duty PTFE BS 5842

Inner wire: Stainless steel wire
Tube: PTFE film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Galvanised steel wire
Use: Acid, chemical, fuel and solvents suction and delivery. Specially designed for long service life in heavy duty applications requiring resistance to high temperature
Safety factor: 4:1
Temperature: -30 °C +120 °C (-22 °F +248 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↻		↻		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
25	1	37	1,46	14	200	100	4,00	90	1,000	0,670
40	1 1/2	53	2,09	14	200	140	5,50	90	1,300	0,870
50	2	63	2,48	14	200	150	6,00	90	1,700	1,140
63*	2 1/2	78	3,07	14	200	175	7,00	90	2,500	1,680
65	2 5/8	78	3,07	14	200	175	7,00	90	2,800	1,680
75*	3	90	3,54	14	200	250	10,00	90	2,700	1,810
80	3 1/8	94	3,70	14	200	250	10,00	90	3,500	2,350
100	4	122	4,80	14	200	350	14,00	90	6,200	4,160

* Pitch for UK market

NA	LA	NEU	EMEA	SA	AP	AU
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5N333

Acid-chemical S&D 14 bar (200 psi) - heavy duty PTFE BS 5842

Inner wire: Stainless steel wire
Tube: PTFE film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Stainless steel wire
Use: Acid, chemical, fuel and solvents suction and delivery. Specially designed for long service life in heavy duty applications requiring resistance to high temperature
Safety factor: 4:1
Temperature: -30 °C +120 °C (-22 °F +248 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↻		↻		⌚	⌚	⌒		⌒	⌚	⌚
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
50	2	62	2,44	10	150	150	6,00	90	1,680	1,130
80	3 1/8	93	3,66	10	150	250	10,00	90	3,400	2,280

NA	LA	NEU	EMEA	SA	AP	AU
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5J533

Tank cleaning 10 bar (150 psi) BS 5842

Inner wire: Stainless steel wire
Tube: Polypropylene film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Stainless steel wire
Use: Tank cleaning
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↔		↔		⚡	⤴	⤵	⊘	⊘	⊘	⊘
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
40	1 1/2	52	2,05	10	150	140	5,50	90	1,400	0,940
50	2	62	2,44	10	150	150	6,00	90	1,600	1,074
65	2 5/8	77	3,03	10	150	175	7,00	90	2,100	1,410
80	3 1/8	93	3,66	10	150	250	10,00	90	2,800	1,880
100	4	121	4,76	10	150	350	14,00	90	4,800	3,223

NA	LA	NEU	EMEA	SA	AP	AU
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5J551 EN
Acid-chemical S&D 10 bar (150 psi)
standard duty
EN 13765 arrêté TMD

Inner wire: Polypropylene coated steel wire
Tube: Polypropylene film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Galvanised steel wire
Use: Acid and chemical suction and delivery. Specially designed for tank truck applications
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings
Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
 ≤ 1 Ohm/mt over DN 50mm (2")

↔		↔		⚡	⤴	⤵	⊘	⊘	⊘	⊘
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
50	2	62	2,44	10	150	150	6,00	90	1,700	1,140
80	3 1/8	93	3,66	10	150	250	10,00	90	3,300	2,213

NA	LA	NEU	EMEA	SA	AP	AU
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5J553 EN
Acid-Chemical S&D 10 bar (150 psi)
standard duty
EN 13765 arrêté TMD

Inner wire: Polypropylene coated steel wire
Tube: Polypropylene film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Stainless steel wire
Use: Acid and chemical suction and delivery. Specially designed for tank truck applications
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings
Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
 ≤ 1 Ohm/mt over DN 50mm (2")

hose

fittings

appendix

↔		↔		⏏		⤴		⌘		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
50	2	63	2,48	14	200	150	6,00	90	2,100	1,410	
80	3 1/8	94	3,70	14	200	250	10,00	90	3,800	2,551	
100	4	122	4,80	14	200	350	14,00	90	6,300	4,230	

NA	LA	NEU	EMEA	SA	AP	AU
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5N333 EN
Acid-Chemical S&D 14 bar (200 psi)
heavy duty - PTFE
EN 13765 arrété TMD

Inner wire: Stainless steel wire
Tube: PTFE film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Stainless steel wire
Use: Acid, chemical, fuel and solvents suction and delivery. Specially designed for long service life in heavy duty applications requiring resistance to high temperature
Safety factor: 4:1
Temperature: -30 °C +115 °C (-22 °F +239 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings
Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
 ≤ 1 Ohm/mt over DN 50mm (2")

↔		↔		⏏		⤴		⌘		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
50	2	62	2,44	10	150	150	6,00	90	1,780	1,184	
80	3 1/8	93	3,66	10	150	250	10,00	90	3,580	2,382	
100	4	121	4,76	10	150	350	14,00	90	4,820	3,207	

NA	LA	NEU	EMEA	SA	AP	AU
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5J533 EN
Tank cleaning 10 bar (150 psi)
EN 13765 arrété TMD

Inner wire: Stainless steel wire
Tube: Polypropylene film
Cover: Grey PVC coated fabric with longitudinal white stripe
Outer wire: Stainless steel wire
Use: Tank cleaning
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings
Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
 ≤ 1 Ohm/mt over DN 50mm (2")



HYDROCARBONS

HOSE

687AA	Automotive fuel 7 bar (100 psi) - DIN 73379/2A.....	H.90
689AA	Automotive fuel 10 bar (150 psi) external textile braid ..	H.90
688AA	Diesel oil delivery 15 bar (225 psi) external steel braid..	H.90
680AA	Fuel-oil delivery 10 bar (150 psi).....	H.90
671AA	Fuel-oil delivery 16 bar (240 psi).....	H.90
650AA	Fuel-oil delivery 10 bar (150 psi).....	H.91
650AH	Fuel-oil delivery 10 bar (150 psi).....	H.91
650AB	Fuel-oil delivery 10 bar (150 psi).....	H.91
668EL	Fuel-oil S&D - PVC - heavy duty.....	H.92
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605AA	Fuel-oil S&D 10 bar (150 psi) - exceeds SAE 100R4 SAE J2006/R2 ISO 13363/2/A+B	H.93
605AH	Fuel-oil S&D 10 bar (150 psi).....	H.93
629AA	Biofuel S&D 10 bar (150 psi)	H.93
606AE	Tank truck 10 bar (150 psi) - corrugated low temperature.....	H.94
6J544	Fuel-oil S&D 10 bar (150 psi) - light duty BS 3492/BX BS 5842 arrêté ADR annexe 1	H.94
6J541	Fuel-oil S&D 10 bar (150 psi) - standard duty BS 3492/BX BS 5842 arrêté ADR annexe 1	H.94
6J511	Fuel-oil delivery 10 bar (150 psi) - standard duty BS 3492/BX BS 5842.....	H.95
6J511 EN	Fuel-oil delivery 10 bar (150 psi) EN 13765 arrêté TMD	H.95
655AA	Fuel-oil delivery 16 bar (240 psi) exceeds EN 1761 TRbF 131/2	H.96
619AA	Fuel-oil S&D 16 bar (240 psi) EN 12115 - exceeds EN 1761 - TRbF 131/2.....	H.96
620AA	Fuel-oil S&D 20 bar (300 psi).....	H.96
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64PAA	Fuel-oil S&D 15 bar (225 psi) - heavy duty EN 1765/L15	H.97
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HYDRAULIC FITTINGS - AG Hydraulic catalogue	

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
3,5	9/64	9,5	0,37	7	100	35	1,50		0,090	0,060
5	3/16	11	0,43	7	100	50	2,00		0,110	0,075
5,5	7/32	11,5	0,45	7	100	55	2,25		0,120	0,080
6	1/4	12	0,47	7	100	60	2,50		0,120	0,080
7,5	19/64	13,5	0,53	7	100	75	3,00		0,140	0,095
9,5	3/8	15,5	0,61	7	100	95	3,75		0,170	0,115
NA	LA	NEU	EMEA	SA	AP	AU				



687AA
Automotive fuel 7 bar (100 psi)
DIN 73379/2A

Tube: Black NBR
Reinforcement: High tensile textile cords
Cover: Black CR - abrasion, ozone and hydrocarbon resistant
Use: Petrol and diesel transfer in automotive applications. Also suitable for ecodiesel
Safety factor: 4:1
Temperature: -40 °C +85 °C (-40 °F +185 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
3,2	1/8	7	0,28	10	150				0,040	0,027
3,5	9/64	7,5	0,30	10	150				0,045	0,030
4	5/32	8	0,31	10	150				0,050	0,034
4,5	11/64	9,5	0,37	10	150				0,060	0,040
5	3/16	10	0,39	10	150				0,065	0,044
5,5	7/32	10,5	0,41	10	150				0,070	0,047
6	1/4	11	0,43	10	150				0,075	0,050
7,5	19/64	12,5	0,49	10	150				0,080	0,055
8	5/16	13	0,51	10	150				0,090	0,060
9	23/64	14	0,55	10	150				0,105	0,070
12	15/32	17	0,67	7	100				0,135	0,090
NA	LA	NEU	EMEA	SA	AP	AU				



689AA
Automotive fuel 10 bar (150 psi)
external textile braid

Tube: Black NBR
Reinforcement: High tensile textile braid
Use: Petrol and diesel transfer in automotive applications. Also suitable for unleaded fuel and ecodiesel
Safety factor: 3:1
Temperature: -20 °C +100 °C (-4 °F +212 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
6	1/4	11	0,43	15	225				0,100	0,067
8	5/16	13	0,51	15	225				0,155	0,105
10	3/8	15	0,59	15	225				0,190	0,130
12	15/32	17	0,67	15	225				0,230	0,155
NA	LA	NEU	EMEA	SA	AP	AU				



688AA
Diesel oil delivery 15 bar (225 psi)
external steel braid

Tube: Black NBR
Reinforcement: Plated steel braid
Use: Diesel oil delivery. Specially designed for burner feed line
Safety factor: 4:1
Temperature: -20 °C +100 °C (-4 °F +212 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
6	1/4	13	0,51	10	150	48	2,00		0,140	0,095
8	5/16	15	0,59	10	150	64	2,50		0,170	0,115
10	3/8	17	0,67	10	150	80	3,00		0,205	0,140
13	1/2	20	0,79	10	150	104	4,00		0,250	0,170
19	3/4	27	1,06	10	150	152	6,00		0,400	0,270
25	1	35	1,38	10	150	200	8,00		0,630	0,425
NA	LA	NEU	EMEA	SA	AP	AU				



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
Use: General purpose fuel and oil delivery
Safety factor: 3:1
Temperature: -10 °C +60 °C (+14 °F +140 °F)

mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
5	3/16	12	0,47	16	240	50	2,00		0,130	0,087
6	1/4	13	0,51	16	240	60	2,50		0,150	0,100
7	9/32	13	0,51	16	240	70	2,75		0,150	0,100
8	5/16	15	0,59	16	240	80	3,00		0,170	0,115
10	3/8	17	0,67	16	240	100	4,00		0,210	0,140
13	1/2	20	0,79	16	240	120	4,75		0,250	0,170
16	5/8	24	0,94	16	240	160	6,25		0,350	0,235
19	3/4	27	1,06	16	240	190	7,50		0,400	0,270
25	1	35	1,38	16	240	250	10,00		0,730	0,495
NA	LA	NEU	EMEA	SA	AP	AU				



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
Use: General purpose fuel and oil delivery
Safety factor: 3:1
Temperature: -25 °C +80 °C (-13 °F +176 °F)

↔		↔		⌚		⌒		⌘		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	29	1,14	10	150				0,470	0,320	
25	1	35	1,38	10	150				0,580	0,390	
32	1 1/4	42	1,65	10	150				0,710	0,480	
38	1 1/2	48	1,89	10	150				0,840	0,565	
51	2	61	2,40	10	150				1,110	0,750	
63	2 1/2	75	2,95	10	150				1,630	1,100	
76	3	88	3,46	10	150				1,960	1,320	
102	4	114	4,49	10	150				2,650	1,785	
32	1 1/4	44	1,73	10	150				0,880	0,595	
35	1 3/8	47	1,85	10	150				0,960	0,650	
38	1 1/2	50	1,97	10	150				1,030	0,695	
40	1 9/16	52	2,05	10	150				1,070	0,720	
45	1 3/4	57	2,24	10	150				1,190	0,800	
51	2	63	2,48	10	150				1,350	0,910	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: General purpose fuel and oil delivery
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⌒		⌘		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
38	1 1/2	48	1,89	10	150				0,920	0,620	
51	2	61	2,40	10	150				1,220	0,820	
76	3	88	3,46	10	150				2,120	1,425	
102	4	114	4,49	10	150				2,850	1,920	
19	3/4	29	1,14	10	150				0,520	0,350	
22	7/8	32	1,26	10	150				0,580	0,390	
25	1	35	1,38	10	150				0,650	0,440	
32	1 1/4	44	1,73	10	150				0,960	0,650	
38	1 1/2	50	1,97	10	150				1,140	0,770	
51	2	63	2,48	10	150				1,460	0,985	
63	2 1/2	77	3,03	10	150				2,080	1,400	
76	3	92	3,62	10	150				2,550	1,715	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: General purpose fuel and oil delivery
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⌒		⌘		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	35	1,38	10	150				0,650	0,440	
32	1 1/4	42	1,65	10	150				0,790	0,535	
38	1 1/2	48	1,89	10	150				0,920	0,620	
32	1 1/4	44	1,73	10	150				0,960	0,650	
38	1 1/2	50	1,97	10	150				1,110	0,750	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: General purpose fuel and oil delivery
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏲	⤴		⤵		⏲	⏲	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1			7	100	150	6,00	90	0,540	0,365	
32	1 1/4			6	90	192	7,50	90	0,680	0,460	
38	1 1/2			6	90	228	9,00	90	0,760	0,515	
40	1 9/16			6	90	240	9,50	90	0,800	0,540	
51	2			5	75	306	12,00	90	1,150	0,775	
60	2 3/8			4	60	360	14,00	90	1,550	1,045	
63	2 1/2			4	60	378	15,00	90	1,600	1,080	
76	3			4	60	456	18,00	90	2,000	1,345	
80	3 1/8			4	60	480	19,00	90	2,100	1,415	
102	4			3	45	612	24,00	90	3,100	2,085	
NA	LA	NEU	EMEA	SA	AP	AU					



668EL

Fuel-oil S&D - PVC - heavy duty

Construction: Blue PVC - abrasion, ozone and hydrocarbon resistant

Reinforcement: White shock resistant rigid PVC

Use: General purpose fuel and oil suction and delivery

Safety factor: 3:1

Temperature: -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⏲	⤴		⤵		⏲	⏲
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
51	2	61	2,40	10	150	255	10,00	100	1,380	0,930
76	3	88	3,46	10	150	380	15,00	90	2,570	1,730
102	4	116	4,57	10	150	510	20,00	90	3,560	2,395
152	6	168	6,61	10	150	760	30,00	80	6,820	4,585
NA	LA	NEU	EMEA	SA	AP	AU				



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

Use: Crude oil mud in oilfield vacuum tank service. Extensively used in fracking operations

Safety factor: ≤ 102 mm 3:1 152 mm 2,5:1

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

↔		↔		⊥		⌒		⌘	♁	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
19	3/4	29	1,14	10	150	76	3,00	100	0,610	0,410
25	1	35	1,38	10	150	100	4,00	100	0,760	0,515
30	1 3/16	40	1,57	10	150	120	4,75	100	0,850	0,575
32	1 1/4	42	1,65	10	150	128	5,00	100	0,900	0,605
35	1 3/8	45	1,77	10	150	140	5,50	100	0,980	0,660
38	1 1/2	48	1,89	10	150	152	6,00	100	1,050	0,710
40	1 9/16	50	1,97	10	150	160	6,25	100	1,090	0,735
42	1 5/8	52	2,05	10	150	168	6,75	100	1,150	0,775
45	1 3/4	55	2,17	10	150	180	7,00	100	1,220	0,820
48	1 7/8	58	2,28	10	150	192	7,50	100	1,280	0,865
51	2	61	2,40	10	150	204	8,00	100	1,350	0,910
57	2 1/4	67	2,64	10	150	228	9,00	100	1,510	1,015
60	2 3/8	72	2,83	10	150	240	9,50	100	2,020	1,360
63	2 1/2	75	2,95	10	150	252	10,00	90	2,110	1,420
70	2 3/4	82	3,23	10	150	280	11,00	90	2,350	1,580
76	3	88	3,46	10	150	304	12,00	90	2,520	1,695
80	3 1/8	94	3,70	10	150	320	12,50	90	2,700	1,815
90	3 1/2	104	4,09	10	150	360	14,00	90	3,140	2,115
102	4	116	4,57	10	150	408	16,00	90	3,500	2,355
110	4 5/16	124	4,88	10	150	440	17,25	90	4,240	2,850
115	4 1/2	129	5,08	10	150	460	18,00	90	4,410	2,965
120	4 3/4	138	5,43	10	150	480	19,00	80	5,640	3,795
127	5	145	5,71	10	150	508	20,00	80	5,930	3,990
133	5 1/4	151	5,94	10	150	532	21,00	80	6,170	4,150
152	6	170	6,69	10	150	608	24,00	80	7,360	4,950
203	8	225	8,86	10	150	812	32,00	70	11,700	7,865

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: 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
Safety factor: ≤ 127 mm 3:1 ≥ 133 mm 2,5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊥		⌒		⌘	♁	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
38	1 1/2	48	1,89	10	150	152	6,00	100	1,080	0,730
51	2	61	2,40	10	150	204	8,00	100	1,390	0,935
76	3	88	3,46	10	150	304	12,00	90	2,580	1,735
102	4	116	4,57	10	150	408	16,00	90	3,580	2,410

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Fuel and oil suction and delivery. Specially designed for tank truck and general industrial applications
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊥		⌒		⌘	♁	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
19	3/4	29	1,14	10	150	76	3,00	100	0,610	0,410
25	1	35	1,38	10	150	100	4,00	100	0,760	0,515
32	1 1/4	42	1,65	10	150	128	5,00	100	0,900	0,605
38	1 1/2	48	1,89	10	150	152	6,00	100	1,050	0,710
51	2	61	2,40	10	150	204	8,00	100	1,360	0,915
76	3	88	3,46	10	150	304	12,00	90	2,540	1,710
102	4	116	4,57	10	150	408	16,00	90	3,530	2,375

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Fuel and oil suction and delivery. Specially designed for biofuel and ethanol
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏰	⏰	↷		⏰	⏰	⏰	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2			10	150	76	3,00	100	1,570	1,060	
76	3			10	150	114	4,50	100	2,730	1,835	
102	4			10	150	153	6,00	100	3,970	2,670	
NA		LA		NEU		EMEA		SA		AP	AU



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
Use: Fuel, oil and hydraulic fluids suction and delivery.
 Specially designed for tank truck applications where extreme flexibility at low temperatures is required
Safety factor: 3:1
Temperature: -54 °C +82 °C (-65 °F +180 °F)

↔		↔		⏰	⏰	↷		⏰	⏰	⏰	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
50	2	61	2,40	10	150	150	6,00	90	0,970	0,650	
65	2 5/8	75	2,95	10	150	175	7,00	90	1,210	0,810	
75	3	88	3,46	10	150	250	10,00	90	1,400	0,940	
80	3 1/8	93	3,66	10	150	250	10,00	90	1,680	1,130	
100	4	119	4,69	10	150	350	14,00	90	2,250	1,510	
NA		LA		NEU		EMEA		SA		AP	AU



6J544 Fuel-oil S&D 10 bar (150 psi) - light duty light weight BS 3492/BX BS 5842

Inner wire: Aluminium wire
Tube: Polypropylene film
Cover: Orange PVC coated fabric with longitudinal yellow stripe
Outer wire: Aluminium wire
Use: Fuel and oil suction and delivery.
 Specially designed for tank truck applications.
 Light weight construction
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↔		↔		⏰	⏰	↷		⏰	⏰	⏰	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
40	1 1/2	50	2,05	10	150	140	5,50	90	1,100	0,740	
50	2	61	2,40	10	150	150	6,00	90	1,190	0,800	
65	2 5/8	75	2,95	10	150	175	7,00	90	1,700	1,140	
75	3	88	3,46	10	150	250	10,00	90	2,000	1,340	
80	3 1/8	93	3,66	10	150	250	10,00	90	2,500	1,680	
100	4	119	4,69	10	150	350	14,00	90	3,200	2,150	
NA		LA		NEU		EMEA		SA		AP	AU



6J541 Fuel-oil S&D 10 bar (150 psi) - light duty BS 3492/BX BS 5842

Inner wire: Aluminium wire
Tube: Polypropylene film
Cover: Orange PVC coated fabric with longitudinal grey stripe
Outer wire: Galvanised steel wire
Use: Fuel and oil suction and delivery.
 Especially designed for tank truck applications.
 Light weight construction.
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↔		↔		⏚		⤴		⌘		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
50	2	61	2,40	10	150	150	6,00	90	1,680	1,130	
63*	2 1/2	75	2,95	10	150	175	7,00	90	2,450	1,650	
65	2 5/8	88	3,46	10	150	175	7,00	90	2,450	1,650	
75*	3	88	3,46	10	150	250	10,00	90	2,600	1,750	
80	3 1/8	93	3,66	10	150	250	10,00	90	2,600	1,750	
100	4	119	4,69	10	150	350	14,00	90	4,200	2,820	

NA	LA	NEU	EMEA	SA	AP	AU
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* Pitch for UK market



6J511
Fuel-oil S&D 10 bar (150 psi) - standard duty
BS 3492/BX BS 5842

Inner wire: Galvanised steel wire
Tube: Polypropylene film
Cover: Grey PVC with longitudinal yellow stripe coated fabric
Outer wire: Galvanised steel wire
Use: Fuel and oil suction and delivery.
 Specially designed for tank truck applications
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↔		↔		⏚		⤴		⌘		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	37	1,46	10	150	100	4,00	90	1,300	0,873	
40	1 1/2	52	2,05	10	150	140	5,50	90	2,000	1,343	
50	2	61	2,40	10	150	150	6,00	90	2,100	1,410	
65	2 5/8	88	3,46	10	150	175	6,00	90	2,200	1,477	
80	3 1/8	93	3,66	10	150	250	10,00	90	2,700	1,810	
100	4	119	4,69	10	150	350	14	90	4,000	2,686	

NA	LA	NEU	EMEA	SA	AP	AU
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6J511 EN
Fuel-oil S&D 10 bar (150 psi) - standard duty
EN 13765 arrêté TMD

Inner wire: Galvanised steel wire
Tube: Polypropylene film
Cover: Grey PVC coated fabric with longitudinal yellow stripe
Outer wire: Galvanised steel wire
Use: Fuel and oil suction and delivery.
 Specially designed for tank truck applications
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings
Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
 ≤ 1 Ohm/mt over DN 50mm (2")

hose

↔		↔		⊕	⌒	⌒	⌒	⌒	⌒		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	16	240	125	5,00		0,590	0,400	
25	1	37	1,46	16	240	150	6,00		0,720	0,485	
32	1 1/4	44	1,73	16	240	175	7,00		0,900	0,605	
38	1 1/2	51	2,01	16	240	225	9,00		1,060	0,715	
51	2	67	2,64	16	240	275	11,00		1,630	1,100	
63	2 1/2	79	3,11	16	240	300	12,00		1,980	1,335	
76	3	92	3,62	16	240	350	14,00		2,430	1,635	
102	4	118	4,65	16	240	450	17,50		3,100	2,085	
152	6	170	6,69	16	240	750	30,00		5,440	3,660	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Fuel and oil delivery.
 Designed for long service life in heavy duty applications
Safety factor: 3:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

fittings

↔		↔		⊕	⌒	⌒	⌒	⌒	⌒		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	16	240	95	3,75	100	0,690	0,460	
25	1	37	1,46	16	240	150	6,00	100	0,840	0,560	
32	1 1/4	44	1,73	16	240	175	7,00	100	1,030	0,690	
38	1 1/2	51	2,01	16	240	225	9,00	100	1,180	0,790	
50	2	66	2,60	16	240	275	11,00	100	1,760	1,180	
51	2	67	2,64	16	240	275	11,00	100	1,790	1,200	
63	2 1/2	79	3,11	16	240	300	12,00	90	2,330	1,570	
75	3	91	3,58	16	240	350	14,00	90	2,790	1,880	
76	3	92	3,62	16	240	350	14,00	90	2,820	1,900	
100	4	116	4,57	16	240	450	17,50	90	3,760	2,530	
102	4	118	4,65	16	240	450	17,50	90	3,820	2,570	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Fuel and oil suction and delivery. Designed for long service life in heavy duty applications
Safety factor: 4:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⊕	⌒	⌒	⌒	⌒	⌒		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	63	2,48	20	300	204	8,00	100	1,640	1,105	
63	2 1/2	77	3,03	20	300	252	10,00	90	2,160	1,455	
76	3	90	3,54	20	300	304	12,00	90	2,640	1,775	
102	4	116	4,57	20	300	408	16,00	90	3,610	2,430	
127	5	145	5,71	20	300	508	20,00	80	6,080	4,090	
152	6	170	6,69	20	300	608	24,00	80	8,320	5,595	
203	8	225	8,86	20	300	812	32,00	70	13,740	9,235	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: Fuel and oil suction and delivery.
 Designed for long service life in heavy duty applications
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

appendix

↔		↔		⌚		⤴		⌚		⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft		
76	3	92	3,62	15	225	380	15,0	85	3,200	2,155		
102	4	122	4,80	15	225	510	20,0	85	5,450	3,665		
152	6	176	6,93	15	225	760	30,0	85	10,930	7,350		
203	8	233	9,17	15	225	1000	40,0	85	17,740	11,925		
254	10	288	11,34	15	225	1270	50,0	85	26,000	17,475		
300	12	340	13,39	15	225	1500	60,0	85	36,000	24,195		
NA		LA		NEU		EMEA		SA		AP		AU



60PAA
Fuel-oil S&D 15 bar (225 psi) - heavy duty 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
Use: 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)
Safety factor: 4:1
Temperature: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		⌚		⤴		⌚		⚖		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft		
76	3	92	3,62	15	225	450	18,0		3,310	2,225		
102	4	120	4,72	15	225	600	24,0		4,010	2,695		
152	6	172	6,77	15	225	900	36,0		7,000	4,705		
203	8	227	8,94	15	225	1200	40,0		12,100	8,135		
NA		LA		NEU		EMEA		SA		AP		AU



64PAA
Fuel-oil delivery 15 bar (225 psi) - heavy duty EN 1765/L15

Tube: Black NBR
Reinforcement: High tensile textile cords
Cover: Black CR- abrasion, ozone, sea water and hydrocarbon resistant
Use: Fuel and oil delivery. Designed for long service life in heavy duty applications. Also suitable for bunkering service. Electrically continuous (discontinuous on request)
Safety factor: 4:1
Temperature: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		⌚		⌒		⌒		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	37	1,46	14	200	100	4,00	90	0,900	0,600	
40	1 1/2	53	2,09	14	200	140	5,50	90	1,250	0,840	
50	2	63	2,48	14	200	150	6,00	90	1,700	1,140	
63*	2 1/2	78	3,07	14	200	175	7,00	90	2,250	1,680	
65	2 5/8	78	3,07	14	200	175	7,00	90	2,500	1,680	
75*	3	90	3,54	14	200	250	10,00	90	2,700	1,810	
80	3 1/8	94	3,70	14	200	250	10,00	90	3,400	2,280	
100	4	122	4,80	14	200	350	14,00	90	4,600	3,090	
NA		LA		NEU		EMEA		SA		AP AU	

* Pitch for UK market



6N111

**Fuel-oil S&D 14 bar (200 psi) - heavy duty
high temperature +100 °C (+212 °F)
BS 3492/BX BS 5842**

Inner wire: Galvanised steel wire

Tube: Polyester film

Cover: Grey PVC coated fabric with longitudinal grey stripe

Outer wire: Galvanised steel wire

Use: Fuel and oil suction and delivery.

Specially designed for long service life in heavy duty applications requiring resistance to high temperature

Safety factor: 4:1

Temperature: -30 °C +100 °C (-22 °F +212 °F)

Electrical Conductivity: Ensured by the 2 wires in contact with fittings

↔		↔		⌚		⌒		⌒		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	37	1,46	14	200	100	4,00	90	0,900	0,600	
40	1 1/2	53	2,09	14	200	140	5,50	90	1,250	0,840	
50	2	63	2,48	14	200	150	6,00	90	1,700	1,140	
63*	2 1/2	78	3,07	14	200	175	7,00	90	2,250	1,510	
65	2 5/8	78	3,07	14	200	175	7,00	90	2,500	1,680	
75	3	90	3,54	14	200	250	10,00	90	2,700	1,810	
80	3 1/8	94	3,70	14	200	250	10,00	90	3,400	2,280	
100	4	122	4,80	14	200	350	14,00	90	4,600	3,090	
NA		LA		NEU		EMEA		SA		AP AU	



6N111 EN

**Fuel-oil S&D 14 bar (200 psi) - heavy duty
high temperature +100 °C (+212 °F)
EN 13765 arrêté TMD**

Inner wire: Galvanised steel wire

Tube: Polyester film

Cover: Grey PVC coated fabric with longitudinal grey stripe

Outer wire: Galvanised steel wire

Use: Fuel and oil suction and delivery.

Specially designed for long service life in heavy duty applications requiring resistance to high temperature

Safety factor: 4:1

Temperature: -30 °C +100 °C (-22 °F +212 °F)

Electrical Conductivity: Ensured by the 2 wires in contact with fittings

Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
≤ 1 Ohm/mt over DN 50mm (2")

↔		↔		⌚		⌒		⌘		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	37	1,46	16	240	125	5,00		0,810	0,545	
32	1 1/4	44	1,73	16	240	160	6,25		0,970	0,655	
35	1 3/8	47	1,85	16	240	175	7,00		1,040	0,700	
38	1 1/2	51	2,01	16	240	190	7,50		1,130	0,760	
51	2	67	2,64	16	240	255	10,00		1,660	1,120	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Fuel and oil delivery in heavy duty reeling applications. Also suitable for tank cleaning. Antistatic wire available on request
Safety factor: 3:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⌚		⌒		⌘		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	25	375	160	6,25		0,630	0,425	
25	1	38	1,50	25	375	200	8,00		0,810	0,545	
32	1 1/4	45	1,77	25	375	250	10,00		0,950	0,640	
38	1 1/2	52	2,05	25	375	320	12,50		1,350	0,910	
51	2	67	2,64	25	375	400	16,00		2,030	1,365	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: LPG delivery in heavy duty reeling applications
Safety factor: 4:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⊕		⌒		⌒		■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	37	1,46	20	300	150	6,00		0,820	0,555	
32	1 1/4	44	1,73	20	300	190	7,50		0,970	0,655	
38	1 1/2	51	2,01	20	300	225	9,00		1,160	0,780	
50	2	66	2,60	20	300	275	11,00		1,670	1,125	
63	2 1/2	79	3,11	20	300	300	12,00		2,000	1,345	
75	3	91	3,58	20	300	300	12,00		2,390	1,610	
100	4	116	4,57	20	300	450	17,50		3,670	2,470	
NA		LA		NEU		EMEA		SA	AP	AU	



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
Use: Aircraft ground fuelling
Safety factor: 4:1
Temperature: -30 °C +55 °C (-22 °F +131 °F)

↔		↔		⊕		⌒		⌒		■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
25	1	41	1,61	20	300	150	6,00	65	0,840	0,565	
32	1 1/4	48	1,89	20	300	190	7,50	65	1,050	0,710	
38	1 1/2	54	2,13	20	300	225	9,00	65	1,220	0,820	
50	2	67	2,64	20	300	275	11,00	65	1,850	1,245	
63	2 1/2	81	3,19	20	300	300	12,00	65	2,370	1,595	
75	3	93	3,66	20	300	300	12,00	65	2,820	1,900	
NA		LA		NEU		EMEA		SA	AP	AU	



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
Use: Aircraft ground fuelling and defuelling
Safety factor: 4:1
Temperature: -30 °C +55 °C (-22 °F +131 °F)

↔		↔		⊕		⌒		⌒		■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	69	2,72	10	150	255	10,00	100	2,430	1,635	
76	3	96	3,78	10	150	380	15,00	90	3,990	2,685	
102	4	122	4,80	10	150	510	20,00	90	5,300	3,565	
NA		LA		NEU		EMEA		SA	AP	AU	



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
Use: Hot tar, asphalt and bitumen suction and delivery
Safety factor: 4:1
Temperature: -20 °C +180 °C (-4 °F +356 °F)

↔		↔		⏴		⤵		⌘		⏴	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	29	1,14	21	300	57	2,25	100	0,610	0,410	
25	1	35	1,38	17	250	75	3,00	100	0,760	0,515	
32	1 1/4	42	1,65	14	200	96	3,75	100	0,900	0,605	
38	1 1/2	48	1,89	10	150	114	4,50	100	1,030	0,695	
51	2	61	2,40	7	100	153	6,00	100	1,330	0,895	
63	2 1/2	75	2,95	4	60	189	7,50	100	2,080	1,400	
76	3	88	3,46	4	60	228	9,00	100	2,480	1,670	
90	3 1/2	104	4,09	3	45	270	10,50	100	3,050	2,050	
102	4	116	4,57	2	30	306	12,00	100	3,410	2,295	
NA		LA		NEU		EMEA		SA	AP	AU	



604AA
Oil suction & return
exceeds SAE 100R4

Tube: Black conductive NBR
Reinforcement: High tensile textile cords with embedded steel helix wire
Cover: Black CR - abrasion, ozone and hydrocarbon resistant
Use: Hydraulic oil suction and return lines
Safety factor: 4:1
Temperature: -40 °C +100 °C (-40 °F +212 °F)

↔		↔		⏴		⤵		⌘		⏴	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	29	1,14	25	375	38	1,50	100	0,580	0,390	
25	1	35	1,38	20	300	50	2,00	100	0,750	0,505	
32	1 1/4	42	1,65	17	250	64	2,50	100	0,920	0,620	
38	1 1/2	48	1,89	10	150	76	3,00	100	1,070	0,720	
51	2	61	2,40	7	100	102	4,00	100	1,390	0,935	
63	2 1/2	75	2,95	5	75	126	5,00	100	2,100	1,415	
76	3	88	3,46	5	75	152	6,00	100	2,600	1,750	
102	4	116	4,57	5	75	204	8,00	100	3,410	2,295	
NA		LA		NEU		EMEA		SA	AP	AU	



634AA
Oil suction & return - extra flexible
exceeds SAE 100R4

Tube: Black conductive NBR
Reinforcement: High tensile textile cords with embedded steel helix wire
Cover: Black CR - abrasion, ozone, hydrocarbon and flame resistant
Use: Hydraulic oil suction and return lines requiring tight bend radius
Safety factor: 4:1
Temperature: -40 °C +100 °C (-40 °F +212 °F)

↔		↔		⏴		⤵		⌘		⏴	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	29	1,14	25	375	38	1,50	100	0,630	0,425	
25	1	35	1,38	20	300	50	2,00	100	0,810	0,545	
32	1 1/4	42	1,65	17	250	64	2,50	100	0,990	0,670	
38	1 1/2	48	1,89	10	150	76	3,00	100	1,150	0,775	
51	2	61	2,40	7	100	102	4,00	100	1,490	1,005	
NA		LA		NEU		EMEA		SA	AP	AU	



644AA
Oil suction & return - extra flexible
high temperature
exceeds SAE 100R4

Tube: Black conductive NBR
Reinforcement: High tensile textile cords with embedded steel helix wire
Cover: Black CR - abrasion, ozone, hydrocarbon and flame resistant
Use: Hydraulic oil suction and return lines requiring tight bend radius and resistance to high temperature
Safety factor: 4:1
Temperature: -40 °C +135 °C (-40 °F +275 °F)



MARINE

HOSE

266LL	Marine sanitary hose - PVC	H.104
202AL	Marine sanitary hose 10 bar (150 psi)	H.104
653AA	Marine exhaust - soft wall SAE J2006/R1 ISO 13363/1/A+B	H.105
6E1AA	Marine exhaust - hard wall SAE J2006/R2 ISO 13363/1/A+B	H.105
605AA	Fuel-oil S&D 10 bar (150 psi) - exceed SAE 100R4 SAE J2006/R2 - ISO 13363/2/A+B.....	H.106
616AA	Marine fuel-exhaust - hard wall ISO 7840/A2 SAE J1527/A2 SAE 20R3/C 94/25/CE 2003/44/EC.....	H.106



↔		↔		Ⓜ		⤵		Ⓜ		Ⓜ	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4			8	120	75	3,00	70	0,300	0,200	
25	1			8	120	120	4,75	70	0,380	0,255	
38	1 1/2			6	90	170	6,75	70	0,580	0,390	
NA		LA		NEU		EMEA		SA		AP AU	



266LL

Marine sanitary hose - PVC

Construction: White thermoplastic elastomer

Reinforcement: White shock resistant rigid PVC

Use: Sanitary hose for marine installations

Safety factor: 3:1

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

↔		↔		Ⓜ		⤵		Ⓜ		Ⓜ	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	29	1,14	10	150	76	3,00	100	0,580	0,390	
25	1	35	1,38	10	150	100	4,00	100	0,720	0,485	
38	1 1/2	48	1,89	10	150	152	6,00	100	0,990	0,670	
NA		LA		NEU		EMEA		SA		AP AU	



202AL

Marine sanitary hose 10 bar (150 psi)

Tube: Black chlorobutyl

Reinforcement: High tensile textile cords with embedded steel helix wire

Cover: White EPDM - abrasion and ozone resistant

Use: Sanitary hose for marine installations. Designed for excellent kink resistance at tight bend radius and maximum flexibility.

Top permeability resistance

Safety factor: 3:1

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

↔		↔		⊕		⌒		%		■	
mm	inch	mm	inch	bar	psi	mm	inch			kg/m	lb/ft
25	1	35	1,38	3	45					0,630	0,425
28	1 1/8	38	1,50	3	45					0,690	0,465
32	1 1/4	42	1,65	3	45					0,770	0,520
35	1 3/8	45	1,77	3	45					0,830	0,560
38	1 1/2	48	1,89	3	45					0,900	0,605
42	1 5/8	52	2,05	3	45					0,980	0,660
45	1 3/4	55	2,17	3	45					1,040	0,700
48	1 7/8	58	2,28	3	45					1,110	0,750
51	2	63	2,48	3	45					1,430	0,965
57	2 1/4	69	2,72	3	45					1,580	1,065
60	2 3/8	74	2,91	3	45					1,940	1,305
63	2 1/2	77	3,03	3	45					2,030	1,365
76	3	90	3,54	3	45					2,430	1,635
90	3 1/2	104	4,09	3	45					2,890	1,945
102	4	116	4,57	3	45					3,240	2,180
115	4 1/2	129	5,08	3	45					3,610	2,430
127	5	141	5,55	3	45					3,980	2,675
152	6	168	6,61	3	45					4,850	3,260
168	6 5/8	184	7,24	3	45					5,310	3,570
203	8	221	8,70	3	45					7,380	4,960
NA		LA		NEU		EMEA		SA	AP	AU	



653AA
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
Use: Marine wet exhaust. Also suitable for bilge pump connection
Safety factor: 5:1
Temperature: -30 °C +100 °C (-22 °F +212 °F)

↔		↔		⊕		⌒		%		■	
mm	inch	mm	inch	bar	psi	mm	inch			kg/m	lb/ft
25	1			3	45	50	2,00	100		0,520	0,350
28	1 1/8			3	45	56	2,25	100		0,570	0,385
32	1 1/4			3	45	64	2,50	100		0,640	0,435
35	1 3/8			3	45	70	2,75	100		0,690	0,465
38	1 1/2			3	45	76	3,00	100		0,750	0,505
40	1 9/16			3	45	80	3,00	100		0,780	0,525
42	1 5/8			3	45	84	3,25	100		0,810	0,545
45	1 3/4			3	45	90	3,50	100		0,870	0,585
48	1 7/8			3	45	96	3,75	100		0,920	0,620
51	2			3	45	102	4,00	100		0,970	0,655
60	2 3/8			3	45	120	4,75	90		1,500	1,010
63	2 1/2			3	45	126	5,00	90		1,570	1,060
70	2 3/4			3	45	140	5,50	90		1,720	1,160
76	3			3	45	152	6,00	90		1,870	1,260
80	3 1/8			3	45	160	6,25	90		1,960	1,320
90	3 1/2			3	45	180	7,00	90		2,380	1,600
102	4			3	45	204	8,00	90		2,680	1,805
115	4 1/2			3	45	230	9,00	90		3,000	2,020
127	5			3	45	254	10,00	80		3,620	2,435
152	6			3	45	304	12,00	80		4,300	2,890
203	8			3	45	406	16,00	80		7,460	5,015
NA		LA	NEU		EMEA		SA	AP	AU		



6E1AA
Marine exhaust - hard wall
SAE J2006/R2 - ISO 13363/2/A+B

Tube: Black synthetic rubber
Reinforcement: High tensile textile cords with embedded steel helix wire
Cover: Black synthetic rubber - abrasion and ozone resistant
Use: Marine wet exhaust. Also suitable for bilge pump connection. Special lightweight construction for maximum flexibility
Safety factor: 5:1
Temperature: -30 °C +100 °C (-22 °F +212 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	29	1,14	10	150	76	3,00	100	0,610	0,410	
25	1	35	1,38	10	150	100	4,00	100	0,760	0,515	
30	1 3/16	40	1,57	10	150	120	4,75	100	0,850	0,575	
32	1 1/4	42	1,65	10	150	128	5,00	100	0,900	0,605	
35	1 3/8	45	1,77	10	150	140	5,50	100	0,980	0,660	
38	1 1/2	48	1,89	10	150	152	6,00	100	1,050	0,710	
40	1 9/16	50	1,97	10	150	160	6,25	100	1,090	0,735	
42	1 5/8	52	2,05	10	150	168	6,75	100	1,150	0,775	
45	1 3/4	55	2,17	10	150	180	7,00	100	1,220	0,820	
48	1 7/8	58	2,28	10	150	192	7,50	100	1,280	0,865	
51	2	61	2,40	10	150	204	8,00	100	1,350	0,910	
57	2 1/4	67	2,64	10	150	228	9,00	100	1,510	1,015	
60	2 3/8	72	2,83	10	150	240	9,50	100	2,020	1,360	
63	2 1/2	75	2,95	10	150	252	10,00	90	2,110	1,420	
70	2 3/4	82	3,23	10	150	280	11,00	90	2,350	1,580	
76	3	88	3,46	10	150	304	12,00	90	2,520	1,695	
80	3 1/8	94	3,70	10	150	320	12,50	90	2,700	1,815	
90	3 1/2	104	4,09	10	150	360	14,00	90	3,140	2,115	
102	4	116	4,57	10	150	408	16,00	90	3,500	2,355	
110	4 5/16	124	4,88	10	150	440	17,25	90	4,240	2,850	
115	4 1/2	129	5,08	10	150	460	18,00	90	4,410	2,965	
120	4 3/4	138	5,43	10	150	480	19,00	80	5,640	3,795	
127	5	145	5,71	10	150	508	20,00	80	5,930	3,990	
133	5 1/4	151	5,94	10	150	532	21,00	80	6,170	4,150	
152	6	170	6,69	10	150	608	24,00	80	7,360	4,950	
203	8	225	8,86	10	150	812	32,00	70	11,700	7,865	
NA	LA	NEU	EMEA	SA	AP	AU					



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
Use: 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
Safety factor: ≤ 127 mm 3:1 ≥ 133 mm 2,5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	29	1,14	2	30	57	2,25	100	0,650	0,440	
22	7/8	32	1,26	2	30	66	2,75	100	0,730	0,495	
25	1	35	1,38	2	30	75	3,00	100	0,820	0,555	
28	1 1/8	38	1,50	2	30	84	3,25	100	0,880	0,595	
35	1 3/8	45	1,77	2	30	105	4,25	100	1,040	0,700	
38	1 1/2	48	1,89	2	30	114	4,50	100	1,120	0,755	
40	1 9/16	50	1,97	2	30	120	4,75	100	1,170	0,790	
42	1 5/8	52	2,05	2	30	126	5,00	100	1,210	0,815	
45	1 3/4	55	2,17	2	30	135	5,25	100	1,290	0,870	
48	1 7/8	58	2,28	2	30	144	5,75	100	1,360	0,915	
51	2	61	2,40	2	30	153	6,00	100	1,460	0,985	
57	2 1/4	67	2,64	2	30	171	6,75	100	1,610	1,085	
60	2 3/8	70	2,76	2	30	180	7,00	90	1,860	1,250	
63	2 1/2	73	2,87	2	30	189	7,50	90	1,940	1,305	
76	3	86	3,39	2	30	228	9,00	90	2,270	1,530	
90	3 1/2	100	3,94	2	30	270	10,50	90	2,840	1,910	
102	4	112	4,41	2	30	306	12,00	90	3,140	2,115	
115	4 1/2	127	5,00	2	30	345	13,50	90	4,040	2,720	
127	5	141	5,55	2	30	381	15,00	80	4,520	3,040	
NA	LA	NEU	EMEA	SA	AP	AU					



616AA
Marine fuel-exhaust - hard wall
ISO 7840/A2 SAE J1527/A2 SAE 20R3/C
94/25/CE 2003/44/EC

Tube: Black NBR - fuel and fire resistant
Reinforcement: High tensile textile cords with embedded steel helix wire
Cover: Black NBR/PVC - abrasion, ozone, hydrocarbon and fire resistant
Use: Marine fuel transfer. Designed for excellent kink resistance at tight bend radius and maximum flexibility. Also suitable for marine wet exhaust applications
Safety factor: 5:1
Temperature: -20 °C +100 °C (-4 °F +212 °F)



DOCK

HOSE

60DAA	Fuel-oil S&D 10 bar (150 psi) - EN 1765/S10.....	H.108
64AAA	Fuel-oil delivery 10 bar (150 psi) - EN 1765/L10	H.108
60NAA	Fuel-oil S&D 15 bar (225 psi) - EN 1765/S15.....	H.109
60GAA	Fuel-oil S&D 15 bar (225 psi) - EN 1765/S15.....	H.109
64DAA	Fuel-oil delivery 15 bar (225 psi) - EN 1765/L15	H.109
6N511 EN	Fuel - Oil S&D - heavy duty EN 13765 arrêté TMD	H.110
5N551 EN	Acid-Chemical S&D - heavy duty EN 13765 arrêté TMD	H.110
5N331 EN	Acid-Chemical S&D - heavy duty - PTFE EN 13765 arrêté TMD	H.110

HOSE & RECOMMENDED FITTING TABLEA.50

FITTINGS

Chapter COMBINATION NIPPLE /
Male with pre-crimped ferrule..... F.69

Chapter FLANGE.....F.85-87

Built-in Fittings with flange PN16/ASA150
available on request



↔		↔		⏚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			10	150	500	20,00	100	10,200	6,850	
150	6			10	150	750	30,00	100	15,900	10,690	
200	8			10	150	1000	40,00	100	24,300	16,330	
250	10			10	150	1250	50,00	100	33,900	22,780	
300	12			10	150	1500	60,00	100	45,800	30,780	
NA		LA		NEU		EMEA		SA		AP AU	



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

Use: 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

Safety factor: 4:1

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

↔		↔		⏚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			10	150	600	24,00		6,700	4,500	
150	6			10	150	900	36,00		11,000	7,390	
200	8			10	150	1200	48,00		16,100	10,820	
250	10			10	150	1500	60,00		20,100	13,510	
300	12			10	150	1800	72,00		25,000	16,800	
NA		LA		NEU		EMEA		SA		AP AU	



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

Use: 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

Safety factor: 4:1

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

↔		↔		⏚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	98	3,86	15	225	380	5,00	85	4,500	3,030	
102	4	128	5,04	15	225	510	5,00	85	7,700	5,180	
152	6	180	7,09	15	225	760	5,00	85	13,000	8,740	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: 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
Safety factor: 4:1
Temperature: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		⏚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			15	225	500	20,00	100	11,000	7,390	
150	6			15	225	750	30,00	100	17,100	11,490	
200	8			15	225	1000	40,00	100	26,500	17,810	
250	10			15	225	1250	50,00	100	36,600	24,600	
300	12			15	225	1500	60,00	100	51,400	34,540	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: 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
Safety factor: 4:1
Temperature: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		⏚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			15	225	600	24,00		7,500	5,040	
150	6			15	225	900	36,00		13,400	9,010	
200	8			15	225	1200	48,00		18,100	12,160	
250	10			15	225	1500	60,00		24,700	16,600	
300	12			15	225	1800	72,00		31,400	21,100	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: 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
Safety factor: 4:1
Temperature: -20 °C +82 °C (-4 °F +180 °F)

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
150	6			14	200	575	22,00	90	12,40	8,335	
200	8			14	200	800	30,00	90	21,80	14,655	
250	10			10,5	150	1000	38,00	90	26,70	17,945	
300	12			10,5	150	1200	45,50	90	32,00	21,510	

NA	LA	NEU	EMEA	SA	AP	AU
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6N511 EN
Fuel - Oil S&D - heavy duty
EN 13765 arrêté TMD

Inner wire: Galvanised steel wire
Tube: Polypropylene film
Cover: Blue PVC coated fabric with longitudinal yellow stripe
Outer wire: Galvanised steel wire
Use: Fuel and Oil suction and delivery to/from tankers and bunkering vessels
Safety factor: 5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings
Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
 ≤ 1 Ohm/mt over DN 50mm (2")

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
150	6			14	200	575	22,00	90	12,40	12,40	
200	8			14	200	800	30,00	90	21,80	21,80	
250	10			10,5	150	1000	38,00	90	26,70	26,70	

NA	LA	NEU	EMEA	SA	AP	AU
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5N551 EN
Acid-Chemical S&D - heavy duty
EN 13765 arrêté TMD

Inner wire: Polypropylene coated steel wire
Tube: Polypropylene film
Cover: Black PVC coated fabric with longitudinal white stripe
Outer wire: Galvanised steel wire
Use: Acid and Chemical suction and delivery to/from tankers and bunkering vessels
Safety factor: 5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings
Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
 ≤ 1 Ohm/mt over DN 50mm (2")

↔		↔		⌚		⤴		⌚		⌚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
150	6			14	200	575	22,00	90	12,40	8,33	
200	8			14	200	800	30,00	90	21,80	14,65	
250	10			10,5	150	1000	38,00	90	26,70	17,94	
300	12			10,5	150	1200	45,50	90	32,00	21,51	

NA	LA	NEU	EMEA	SA	AP	AU
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5N331 EN
Acid-Chemical S&D - heavy duty - PTFE
EN 13765 arrêté TMD

Inner wire: Stainless Steel 316 wire
Tube: PTFE film
Cover: Red PVC coated fabric with longitudinal white stripe
Outer wire: Galvanised steel wire
Use: Acid and Chemical suction and delivery to/from tankers and bunkering vessels
Safety factor: 5:1
Temperature: -30 °C +100 °C (-22 °F +212 °F)
Electrical Conductivity: Ensured by the 2 wires in contact with fittings
Electrical Resistance: ≤ 2.5 Ohm/mt up to DN 50mm (2");
 ≤ 1 Ohm/mt over DN 50mm (2")



FLOATING ROOF DRAIN

HOSE

906AA Roof drain 10 bar (150 psi).....H.112

FITTINGS

Fittings with Flange ASA150 and lead ballast available on request



↔		↔		Ⓜ		⌒		⌘		■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	102	4,02	10	150	380	15,00	90	4,780	3,210	
102	4	128	5,04	10	150	510	20,00	90	6,340	4,260	
152	6	180	7,09	10	150	760	30,00	80	10,550	7,090	
NA		LA		NEU		EMEA		SA		AP AU	



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

Use: Rain water drainage in floating petrochemical storage tank roofs. 80% max aromatic content resistance

ALSO AVAILABLE:

- 905AA 100% aromatic

AVAILABLE WITH SWAGED FITTINGS

Safety factor: 3:1

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



RIG SUPPLY

HOSE

642AA	Rig supply soft wall - fuel-liquid mud 10 bar (150 psi)....	H.114
646AA	Rig supply soft wall - fuel-liquid mud 16 bar (240 psi) end load resistance 6.000 kg	H.114
648AA	Rig supply soft wall - fuel-liquid mud 20 bar (300 psi) end load resistance 8.000 kg	H.114
652AA	Rig supply soft wall - fuel-liquid mud end load resistance 10.000 kg	H.115
615AA	Rig supply hard wall - fuel-liquid mud.....	H.115
742AA	Rig supply soft wall - bulk material 10 bar (150 psi)	H.116
748AA	Rig supply soft wall - bulk material 20 bar (300 psi) end load resistance 8.000 kg	H.116
715AA	Rig supply hard wall - bulk material 10 bar (150 psi)	H.116
442LI	Rig supply soft wall - potable water 10 bar (150 psi) FDA	H.117
448LI	Rig supply soft wall - potable water 20 bar (300 psi) end load resistance 8.000 kg - FDA	H.117
415LI	Rig supply hard wall - potable water 10 bar (150 psi) FDA	H.117

HOSE & RECOMMENDED FITTING TABLEA.51

FITTINGS

Chapter CAM & GROOVE..... F.51-65

Chapter COMBINATION NIPPLE /
Male with pre-crimped ferrule..... F.69

Chapter FLANGE..... F.85-87

HYDRAULIC FITTINGS - AG Hydraulic catalogue



↔		↔		⌚		⤴		⌚		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	92	3,62	10	150				2,370	1,595	
102	4	120	4,72	10	150				3,740	2,515	
127	5	145	5,71	10	150				4,630	3,115	
152	6	170	6,69	10	150				5,510	3,705	

NA	LA	NEU	EMEA	SA	AP	AU
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642AA

Rig supply soft wall fuel-liquid mud 10 bar (150 psi)

Tube: Black conductive NBR
Reinforcement: High tensile textile cords
Cover: Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant
Use: Fuel, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer
Safety factor: 4:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⌚		⤴		⌚		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	94	3,70	16	240				2,590	1,745	
102	4	120	4,72	16	240				3,380	2,275	

NA	LA	NEU	EMEA	SA	AP	AU
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646AA

Rig supply soft wall fuel-liquid mud 16 bar (240 psi) end load resistance 6.000 kg

Tube: Black conductive NBR
Reinforcement: High tensile textile cords
Cover: Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant
Use: 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. Max utilized load 4.000 kg
Safety factor: 4:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⌚		⤴		⌚		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	94	3,70	20	300				2,590	1,745	
102	4	120	4,72	20	300				3,520	2,370	

NA	LA	NEU	EMEA	SA	AP	AU
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648AA

Rig supply soft wall fuel-liquid mud 20 bar (300 psi) end load resistance 8.000 kg

Tube: Black conductive NBR
Reinforcement: High tensile textile cords
Cover: Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant
Use: 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. Max utilized load 5.333 kg
Safety factor: 4:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⏏		⤴		⌋		⏏	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	100	3,94	40	600				3,910	2,630	
102	4	126	4,96	35	525				4,700	3,160	
NA		LA		NEU		EMEA		SA	AP		AU



652AA

**Rig supply soft wall
fuel-liquid mud
end load resistance 10.000 kg**

Tube: Black conductive NBR
Reinforcement: High tensile textile cords
Cover: Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant
Use: 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
 Max utilized load 6.667 kg
Safety factor: 4:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⏏		⤴		⌋		⏏	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	92	3,62	16	240	380	15,00	90	3,300	2,220	
102	4	120	4,72	16	240	510	20,00	90	4,840	3,255	
127	5	147	5,79	10	150	635	25,00	80	6,930	4,660	
152	6	172	6,77	10	150	760	30,00	80	8,240	5,540	
NA		LA		NEU		EMEA		SA	AP		AU



615AA

**Rig supply hard wall
fuel-liquid mud**

Tube: Black conductive NBR
Reinforcement: High tensile textile cords with embedded steel helix wire
Cover: Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant
Use: Fuel, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer
Safety factor: 4:1
Temperature: -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⏚		⤴		⚡		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
102	4	122	4,80	10	150				3,950	2,655	
127	5	147	5,79	10	150				4,870	3,275	
NA		LA		NEU		EMEA		SA	AP		AU



Ω
R≤10°Ω

DNV

742AA
Rig supply soft wall
bulk material 10 bar (150 psi)

Tube: Black conductive NR - abrasion resistant
Reinforcement: High tensile textile cords
Cover: Black conductive SBR/NR - abrasion and ozone resistant
Use: Bulk material, barite and dry cement transfer from supply vessels to offshore platforms
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏚		⤴		⚡		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
102	4	122	4,80	20	300				4,150	2,790	
127	5	151	5,94	20	300				5,120	3,445	
NA		LA		NEU		EMEA		SA	AP		AU



Ω
R≤10°Ω

DNV

748AA
Rig supply soft wall
bulk material 20 bar (300 psi)
end load resistance 8.000 kg

Tube: Black conductive NR - abrasion resistant
Reinforcement: High tensile textile cords
Cover: Black conductive SBR/NR - abrasion and ozone resistant
Use: Bulk material, barite and dry cement transfer from supply vessels to offshore platforms.
 Specially designed for reeling applications and weak link couplings use
 Max utilized load 5.333 kg
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏚		⤴		⚡		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
102	4	122	4,80	10	150	408	16,00	90	4,770	3,210	
127	5	149	5,87	10	150	635	25,00	80	6,940	4,665	
NA		LA		NEU		EMEA		SA	AP		AU



Ω
R≤10°Ω

DNV

715AA
Rig supply hard wall
bulk material 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
Use: Bulk material, barite and dry cement transfer from supply vessels to offshore platforms
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	94	3,70	10	150				2,890	1,945	
102	4	120	4,72	10	150				3,910	2,630	
NA		LA		NEU		EMEA		SA	AP		AU



442LI
Rig supply soft wall
potable water 10 bar (150 psi)
FDA

Tube: White NR
Reinforcement: High tensile textile cords
Cover: Orange NBR/PVC - abrasion, ozone and hydrocarbon resistant
Use: Potable water transfer from supply vessels to offshore platforms. Sterilize with 5% soda solution
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
102	4	120	4,72	20	300				4,230	2,845	
NA		LA		NEU		EMEA		SA	AP		AU



448LI
Rig supply soft wall
potable water 20 bar (300 psi)
end load resistance 8.000 kg
FDA

Tube: White NR
Reinforcement: High tensile textile cords
Cover: Orange NBR/PVC - abrasion, ozone and hydrocarbon resistant
Use: Potable water transfer from supply vessels to offshore platforms. Specially designed for reeling applications and weak link couplings use. Sterilize with 5% soda solution
 Max utilized load 5.333 kg
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	92	3,62	10	150	304	12,00	90	3,690	2,480	
102	4	120	4,72	10	150	408	16,00	90	4,860	3,270	
NA		LA		NEU		EMEA		SA	AP		AU



415LI
Rig supply hard wall
potable water 10 bar (150 psi)
FDA

Tube: White NR
Reinforcement: High tensile textile cords with embedded steel helix wire
Cover: Orange NBR/PVC - abrasion, ozone and hydrocarbon resistant
Use: Potable water transfer from supply vessel to offshore platforms. Sterilize with 5% soda solution
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)



MINING

HOSE

151AA	Compressed air 20 bar (300 psi) heavy duty mining	H.120
151AK	Compressed air 20 bar (300 psi) heavy duty mining	H.120
157AK	Compressed air 27 bar (400 psi) heavy duty mining	H.120
189AK	Air-water delivery - PVC - FRAS AS 2660/A AS/NZS 2554/A	H.120
146AK	Compressed air-water 70 bar (1000 psi) steel braided	H.121
141AA	Compressed air 70 bar (1000 psi) - steel braided FRAS - exceeds AS 2660/B	H.121
289GG	Mine dewatering - PVC - lay flat	H.122
240AA	Air-water delivery 20 bar (300 psi) - FRAS exceeds AS 2660/B	H.122
241AA	Air-water delivery 35 bar (525 psi) - FRAS AS 2660/B	H.122
225AA	General purpose S&D 10 bar (150 psi) - FRAS exceeds AS 2660/C	H.123
245AA	General purpose delivery & light suction 27 bar (400 psi) crush resistant - FRAS - exceeds AS 2660/B	H.123
756AA	Gunite 14 bar (200 psi) - FRAS exceeds AS 2660/C	H.124
765AA	Stone dust 7 bar (100 psi) - FRAS - AS 2660/C	H.124
706AA	Abrasive slurry S&D 10 bar (150 psi) - muff couplings.....	H.124
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660AA	Nitro blast loading - AS 2187.2	H.126
612AA	Nitro blast handling 20 bar (300 psi).....	H.126
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HYDRAULIC FITTINGS - AG Hydraulic catalogue	

↔		↔		⏰	⏰	⤴		⏸	⏸	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	20	300				0,420	0,285
19	3/4	31	1,22	20	300				0,690	0,465
25	1	37	1,46	20	300				0,850	0,575
38	1 1/2	52	2,05	20	300				1,250	0,845
51	2	67	2,64	20	300				2,140	1,440
NA		LA		NEU		EMEA		SA	AP	AU

**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

Use: Compressed air designed for heavy duty mining applications

Safety factor: 3:1

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

↔		↔		⏰	⏰	⤴		⏸	⏸	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	23	0,91	20	300				0,430	0,290
19	3/4	31	1,22	20	300				0,700	0,475
25	1	37	1,46	20	300				0,860	0,580
38	1 1/2	52	2,05	20	300				1,260	0,850
51	2	67	2,64	20	300				1,930	1,300
NA		LA		NEU		EMEA		SA	AP	AU

**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

Use: Compressed air designed for heavy duty mining applications

Safety factor: 3:1

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

↔		↔		⏰	⏰	⤴		⏸	⏸	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
19	3/4	29	1,14	27	400	190	7,50		0,560	0,380
25	1	35	1,38	27	400	250	10,00		0,710	0,480
32	1 1/4	44	1,73	27	400	320	12,50		0,920	0,620
38	1 1/2	50	1,97	27	400	380	15,00		1,050	0,710
51	2	65	2,56	27	400	510	20,00		1,690	1,140
NA		LA		NEU		EMEA		SA	AP	AU

**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

Use: Compressed air designed for heavy duty mining applications

Safety factor: 3:1

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

↔		↔		⏰	⏰	⤴		⏸	⏸	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
13	1/2	21	0,83	20	300	104	4,00		0,275	0,185
19	3/4	29	1,14	20	300	152	6,00		0,485	0,330
25	1	35	1,38	35	525	200	8,00		0,565	0,380
38	1 1/2	48	1,89	20	300	304	12,00		0,890	0,600
50	2	62	2,44	20	300	408	16,00		1,270	0,855
NA		LA		NEU		EMEA		SA	AP	AU

**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

Use: Compressed air in underground mining applications.

Specially designed for roof bolting applications

Safety factor: 3,5:1 25 mm 2:1

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

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	28	1,10	70	1000	95	3,75		0,660	0,445	
25	1	34	1,34	70	1000	125	5,00		0,860	0,580	
32	1 1/4	41	1,61	70	1000	160	6,25		1,110	0,750	
38	1 1/2	49	1,93	70	1000	190	7,50		1,600	1,080	
51	2	63	2,48	70	1000	255	10,00		2,180	1,470	
NA		LA		NEU		EMEA		SA		AP	
										AU	



146AK
Compressed air-water 70 bar (1000 psi)
steel braided

Tube: Black SBR/NBR - oil mist resistant
Reinforcement: High tensile steel wire braids
Cover: Yellow SBR/NBR - abrasion, ozone, hydrocarbon and flame resistant - pin pricked
Use: 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
Safety factor: 4:1
Temperature: -30 °C +90 °C (-22 °F +200 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	64	2,52	70	1000	255	10,00		1,810	1,220	
76	3	90	3,54	40	600	380	15,00		2,748	1,850	
102	4	118	4,65	40	600	510	20,00		3,753	2,525	
NA		LA		NEU		EMEA		SA		AP	
										AU	



141AA
Compressed air 70 bar (1000 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
Use: High pressure compressed air and water in heavy duty "long wall" mining where long service life and maximum safety is required
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⌒		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
105	4	113	4,45	14	200				1,740	1,170	
157	6	167	6,57	10	150				3,300	2,220	
208	8	220	8,66	10	150				5,140	3,455	

NA	LA	NEU	EMEA	SA	AP	AU
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**289GG****Mine dewatering - PVC - lay flat****Tube:** Green PVC**Reinforcement:** High tensile textile cords**Cover:** Green PVC - abrasion, ozone and cut resistant**Use:** Lay flat water discharge for heavy duty applications. Specially designed for mine and construction sites dewatering. High end load resistance**Safety factor:** 4:1**Temperature:** -10 °C +60 °C (+14 °F +140 °F)

↔		↔		⌚		⌒		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	23	0,91	20	300	78	3,00		0,390	0,265	
19	3/4	31	1,22	20	300	114	4,50		0,520	0,350	
25	1	37	1,46	20	300	150	6,00		0,660	0,445	
32	1 1/4	46	1,81	20	300	192	7,50		1,000	0,675	
38	1 1/2	52	2,05	20	300	228	9,00		1,140	0,770	
51	2	67	2,64	20	300	306	12,00		1,720	1,160	
63	2 1/2	79	3,11	20	300	378	15,00		2,180	1,470	
76	3	92	3,62	20	300	456	18,00		2,520	1,695	
102	4	118	4,65	20	300	612	24,00		3,380	2,275	

NA	LA	NEU	EMEA	SA	AP	AU
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**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**Use:** Air, water and stone dust delivery in underground mines**Safety factor:** ≤ 63 mm 4:1 ≥ 76 mm 3,5:1**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⌒		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	31	1,22	35	525	114	4,50		0,520	0,350	
25	1	37	1,46	35	525	150	6,00		0,660	0,445	

NA	LA	NEU	EMEA	SA	AP	AU
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**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**Use:** Air, water and stone dust delivery in underground mines**Safety factor:** 2,5:1**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊕		⌒		⌒		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	61	2,40	10	150	204	8,00	100	1,190	0,800	
76	3	88	3,46	10	150	304	12,00	90	2,260	1,520	
102	4	116	4,57	10	150	408	16,00	90	3,490	2,350	
152	6	170	6,69	10	150	760	30,00	80	6,620	4,450	

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: Water and stone dust suction and delivery.

Also suitable for methane drainage/extraction in underground coal mines

Safety factor: 4:1

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

↔		↔		⊕		⌒		⌒		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	73	2,87	27	400			60	2,350	1,580	

NA	LA	NEU	EMEA	SA	AP	AU
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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

Use: 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%

Safety factor: 3:1

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

↔		↔		⌚		⤴		⌚		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
38	1 1/2	62	2,44	14	200				2,210	1,490	
51	2	75	2,95	14	200				2,840	1,910	

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Gunite
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
32	1 1/4	46	1,81	7	100				0,920	0,620	
38	1 1/2	52	2,05	7	100				1,070	0,720	
51	2	65	2,56	7	100				1,410	0,950	

NA	LA	NEU	EMEA	SA	AP	AU
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765AA
Stone dust 7 bar (100 psi) - FRAS
AS 2660/C

Tube: Black conductive SBR/NR - abrasion resistant
Reinforcement: High tensile textile cords
Cover: Black conductive SBR - abrasion, ozone and fire resistant
Use: "Stone dusting" in underground mines.
 Also suitable for air and water delivery
Safety factor: 4:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		⚖	
mm	inch	mm	inch	mm	bar	psi	mm	inch	%	kg/m	lb/ft
51	2	69	2,72	4	10	150	204	8,00	90	2,080	1,400
76	3	100	3,94	6	10	150	304	12,00	90	4,220	2,840
102	4	126	4,96	6	10	150	408	16,00	90	5,650	3,800
127	5	155	6,10	6	10	150	635	25,00	80	7,900	5,310
152	6	182	7,17	7	10	150	760	30,00	80	10,300	6,925
203	8	235	9,25	7	10	150	1015	40,00	70	14,420	9,695
254	10	286	11,26	7	10	150	1270	50,00	60	20,450	13,745
305	12	343	13,50	9	10	150	1500	60,00	60	29,800	20,030

NA	LA	NEU	EMEA	SA	AP	AU
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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
Use: Bulk material and abrasive slurries suction and delivery in heavy duty mining. Designed for muff coupling use
Safety factor: ≤ 127 mm 3:1 ≥ 152 mm 2,5:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	77	3,03	35	525	204	8,00	100	3,020	2,030	
76	3	106	4,17	35	525	304	12,00	90	4,890	3,290	
102	4	134	5,28	35	525	408	16,00	90	7,250	4,875	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Mineral recovery in sampling operations
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	106	4,17	35	525	304	12,00	90	4,850	3,260	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Mineral recovery in sampling operations
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⊕		⌒		⌒		⊞	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	61	2,4	5	75	127	5,00	90	1,180	0,795	
63	2 1/2	75	2,95	5	75	157	6,50	90	1,850	1,245	
76	3	90	3,54	5	75	190	7,50	90	2,550	1,715	
102	4	116	4,57	5	75	255	10,00	90	3,560	2,395	
115	4 1/2	129	5,08	5	75	287	11,50	90	4,050	2,725	
127	5	141	5,55	5	75	318	13,00	80	4,680	3,150	
152	6	166	6,54	5	75	380	15,00	80	5,550	3,730	
NA		LA		NEU		EMEA		SA		AP AU	



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
Use: Bulk material suction and delivery. Specially designed for drill cutting suction in mobile drilling rigs. Corrugated construction for maximum flexibility
Safety factor: 3:1
Temperature: -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⚡		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
19	3/4	25	0,98						0,200	0,135	
NA	LA	NEU	EMEA	SA	AP	AU					

**660AA****Nitro blast loading
AS 2187.2****Tube:** Black conductive NBR - abrasion resistant**Reinforcement:** High tensile textile fabric**Cover:** Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant**Use:** Explosive loading in blasting holes**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⚡		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
51	2	71	2,80	20	300	255	10,00	70	2,840	1,910	
63	2 1/2	83	3,27	20	300	315	12,50	70	3,320	2,230	
NA	LA	NEU	EMEA	SA	AP	AU					

**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**Use:** Explosive handling in mobile delivery units.

Specially designed for heavy duty reeling applications

Safety factor: 3:1**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⚡		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	21	0,83	5	75				0,250	0,170	
16	5/8	24	0,94	5	75				0,290	0,195	
19	3/4	29	1,14	5	75				0,420	0,280	
25	1	35	1,38	5	75				0,520	0,350	
32	1 1/4	42	1,65	5	75				0,650	0,440	
38	1 1/2	48	1,89	5	75				0,750	0,500	
45	1 3/4	55	2,17	5	75				0,870	0,580	
51	2	61	2,40	5	75				0,980	0,660	
NA	LA	NEU	EMEA	SA	AP	AU					

**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**Use:** Cable protection in underground mines.

Also suitable for light duty air and water delivery max 5 bar (75 psi)

Safety factor: 3:1**Temperature:** -30 °C +80 °C (-22 °F +176 °F)