



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Automotive & Boat



ENGINEERING YOUR SUCCESS.



B – Automotive & Boat

Hose	ID Range (mm)	Temp. Range (°C)	Application
RADIOR 10	7 - 15	-30 / +100	cooling line system
E-Z FROM GS	10 - 50	-40 / +125	high flexible hose for coolant line system
RADIOR DIN 6	10 - 110	-40 / +125	cooling line system
AIRBRAKE DIN 74310	7 - 15	-40 / +70	breaking system
AIRBRAKE SAE J 1402-A	9.5 - 15.9	-40 / +93	breaking system
CARBOPRESS SAE J 30 R7 N/L	4 - 12.7	-40 / +125	car & motorbike fuel system
TBSE	4 - 10	-30 / +100	car & motorbike fuel system
TBE	3 - 7.5	-20 / +90	car & motorbike fuel system
AUTOGAS ECE 67/110 Class2	4 - 19	-25 / +120	LPG/ CNG engines
CARBOBLUE N/L 10	16 - 25	-40 / +100	nox reducing system
CARBOBLUE N/L 20	4 - 25	-40 / +100	nox reducing system
CARBOPRESS EN ISO 7840 A1	5 - 25	-20 / +100	boat fuel system
CARBOCORD EN ISO 7840 A1	38 - 50	-20 / +100	boat fuel system
CARBURITE EN ISO 7840 A1	19 - 60	-20 / +100	boat fuel system
SM/TR 311	19 - 150	-20 / +100	coolant line



	Tube	Reinforcement	Cover	WP (bar)	Safety factor	Suction	Industry standard	Page
	EPDM	textile	EPDM	10	3			B4
	EPDM	textile	EPDM	5	4	yes	SAE J 20R2 - D1	B5
	EPDM	textile	EPDM	6	3			B6 - B7
	EPDM	textile	EPDM	10	4		DIN 74310	B8
	NBR/SBR	textile	CR	15	4		SAE J 1402-A	B9
	NBR	textile	CR	10	4		SAE 30 R7	B10
	NBR	textile	NBR/EPDM	10	3			B11
	NBR	textile		10	3			B12
	NBR	textile	CSM	4.5	4		ECE 67/110	B13
	EPDM	textile	EPDM	10	3			B14
	EPDM	textile	EPDM	20	3			B14
	NBR	textile	NBR/SBR	3.4	8		EN ISO 7840 A1	B15
	NBR	textile	NBR/SBR	2.5	8		EN ISO 7840 A1	B15
	NBR	textile	NBR/SBR	2.5	8	yes	EN ISO 7840 A1	B16
	NBR	textile	NBR/SBR	3	6.5	yes	EN ISO 7840 A1	B17



RADIOR 10

Flexible rubber hose for delivery of hot water in heating and cooling of automotive LPG and methane systems.

Hose Construction

Tube: Black, smooth EPDM nitrosamine free rubber compound

Reinforcement: Synthetic textile yarns

Cover: Smooth, black, heat, ageing and weather-resistant EPDM nitrosamine free rubber compound

Temperature Range






-30 °C (-22 °F) to + 100 °C (+212 °F)
with peaks +120 °C (+248 °F)



- Specific for cooling system
- Also used in combination with Autogas ECE 67/110 in CNG/LPG engines
- Robust structure to avoid kinking
- Burst Pressure Value 3:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH34

Part Number				Working Pressure					in Stock
	I.D. (mm)	O.D. (mm)		MPa	psi	bar			
IH30114029/100	7	13	1.0	150.0	10	0.13	50	N	
IH30114030/50	15	23	1.0	150.0	10	0.35	90	Y	
IH30114030/100	15	23	1.0	150.0	10	0.35	90	Y	

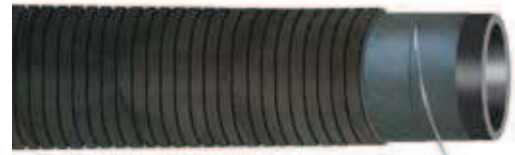


E-Z FORM GS

Designed to handle air, coolant, mild chemicals and water. Extremely flexible, lightweight provides full suction capability and a path to conduct a static electrical charge to ground. The unique Greek cover corrugations provides minimal force-to-bend, superior kink resistance, and maximum flexibility for ease of handling, used where formed hose might normally be required.

Hose Construction

- Tube:** Black EPDM, antistatic rubber compound
- Reinforcement:** Multiple textile plies with wire helix
- Cover:** Black EPDM rubber compound resistant to weathering, greek corrugated finish



- Saves time and costs thanks to easy and quick assembly
- Superior kink resistance, minimal force to bend, outstanding flexibility
- Performance equal to SAE J20R2-D1
- Burst Pressure Value 4:1
- Vacuum: 0.9 bar

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH34

Temperature Range

-40 °C (-40 °F) to +125 °C (+257 °F)

Part Number	I.D. (mm)	O.D. (mm)	Working Pressure			Weight kg/m	min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH73950500/10	13	23	0.5	75.0	5	0.33	35	Y
IH73950594/10	15	25	0.5	75.0	5	0.36	45	Y
IH73950625/10	16	26	0.5	75.0	5	0.39	45	N
IH73950750/10	19	29	0.5	75.0	5	0.46	50	Y
IH73951000/10	25	35	0.5	75.0	5	0.56	50	Y
IH73951125/10	29	38	0.5	75.0	5	0.62	65	Y
IH73951250/10	32	43	0.5	75.0	5	0.75	80	Y
IH73951375/10	35	46	0.5	75.0	5	0.79	95	Y
IH73951500/10	38	49	0.5	75.0	5	0.85	100	Y
IH73952000/10	51	63	0.5	75.0	5	1.44	150	Y
IH73952250/10	57	70	0.5	75.0	5	1.61	200	Y
IH73952375/10	60	73	0.5	75.0	5	1.64	210	Y
IH73952500/10	63.5	76.5	0.5	75.0	5	1.74	220	Y
IH73953000/10	76	90	0.5	75.0	5	2.23	270	Y
IH73954000/10	102	116	0.5	75.0	5	3.28	400	Y



RADIOR DIN 6 (COILS)

Designed for cooling systems of automotive engines and stationary engines and for refrigerant systems.

Hose Construction

- Tube:** Black, smooth, heat resistant EPDM rubber compound according to DIN 73411 - 1996*
- Reinforcement:** Synthetic textile fabrics yarns
- Cover:** Black, smooth, wrapped finish, heat, ageing and weather-resistant EPDM rubber compound according to DIN 73411 - 1996*

*The tube and the cover compounds are according to DIN 73411 - 1996 in the following principal areas: tensile, strength, density, hardness, laceration, swellings, aging and dry residue.

Temperature Range

-40 °C (-40 °F) to +125 °C (+257 °F)
with peaks to +140 °C (+284 °F)



- Compounds according to DIN 73411 for: tensile, strength, density, hardness, laceration, swellings, aging and dry residue
- Specific for cooling system at high temperature
- For Automotive and general industries application
- Burst Pressure Value 3:1

Tolerances

I.D. ≤ 25 mm

according to UNI EN ISO 1307

I.D. > 25 mm

according to RMA steel mandrel

Refer to Technical Handbook on page TH34

Part Number				Working Pressure					min. Bend Radius mm	in Stock
	I.D. (mm)	O.D. (mm)		MPa	psi	bar				
IH30836101/40	10	17	0.6	90.0	6.0	0.17	-	Y		
IH30836103/40	13	20	0.6	90.0	6.0	0.21	-	Y		
IH30836104/40	15	22	0.6	90.0	6.0	0.23	-	Y		
IH30836105/40	16	23	0.6	90.0	6.0	0.25	-	Y		
IH30836106/40	18	25	0.6	90.0	6.0	0.27	-	Y		
IH30836107/40	20	27	0.6	90.0	6.0	0.30	-	Y		
IH30836108/40	22	29	0.6	90.0	6.0	0.33	-	Y		
IH30836109/40	25	34	0.6	90.0	6.0	0.48	-	Y		
IH36836110/40	28	36	0.6	90.0	6.0	0.52	-	Y		
IH36836111/40	30	38	0.6	90.0	6.0	0.55	-	Y		
IH36836112/40	32	40	0.6	90.0	6.0	0.58	-	Y		
IH36836113/40	35	43	0.6	90.0	6.0	0.63	-	Y		
IH36836114/40	38	48	0.6	90.0	6.0	0.88	-	Y		
IH36836115/40	40	50	0.6	90.0	6.0	0.92	-	Y		
IH36836116/40	42	52	0.6	90.0	6.0	0.96	-	N		
IH36836117/40	45	55	0.6	90.0	6.0	1.02	-	N		
IH36836119/40	50	60	0.6	90.0	6.0	1.11	-	Y		

RADIOR DIN - A - I.D. x TH - EPDM / P / EPDM - 6 bar - 125°C (yellow ink x LL and yellow embossed x MM) Y/W (with traceability code)



RADIOR DIN 6 (CUT LENGTH)

Designed for cooling systems of automotive engines and stationary engines and for refrigerant systems.

Hose Construction

Tube:	Black, smooth, heat resistant EPDM rubber compound according to DIN 73411 - 1996*
Reinforcement:	Synthetic textile fabrics yarns
Cover:	Black, smooth, wrapped finish, heat, ageing and weather-resistant EPDM rubber compound according to DIN 73411 - 1996*

*The tube and the cover compounds are according to DIN 73411 - 1996 in the following principal areas: tensile, strength, density, hardness, laceration, swellings, aging and dry residue.

Temperature Range

-40 °C (-40 °F) to +125 °C (+257 °F)
with peaks to +140 °C (+284 °F)



- Compounds according to DIN 73411 for: tensile, strength, density, hardness, laceration, swellings, aging and dry residue
- Specific for cooling system at high temperature
- For Automotive and general industries application
- Burst Pressure Value 3:1

Tolerances

I.D. ≤ 25 mm
according to UNI EN ISO 1307
I.D. > 25 mm
according to RMA steel mandrel
Refer to Technical Handbook on page TH34

Part Number	I.D. (mm)	O.D. (mm)	Working Pressure			Weight kg/m	min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH30836108/1	22	29	0.6	90.0	6.0	0.33	–	N
IH30836109/1	25	34	0.6	90.0	6.0	0.48	–	N
IH36836111/1	30	38	0.6	90.0	6.0	0.55	–	N
IH36836112/1	32	40	0.6	90.0	6.0	0.58	–	N
IH36836114/1	38	48	0.6	90.0	6.0	0.88	–	N

RADIOR DIN – A - I.D. x TH – EPDM / P / EPDM – 6 bar – 125°C (yellow ink x LL and yellow embossed x MM) Y/W (with traceability code)



AIRBRAKE DIN 74310

According to DIN 74310

Widely used in automotive air brake systems.

Hose Construction

- Tube:** Black, smooth EPDM nitrosamine free rubber compound
- Reinforcement:** Stress-resistant, synthetic textile yarns
- Cover:** Black, abrasion, ageing and weather-resistant, smooth EPDM nitrosamine free rubber compound

Temperature Range

-40 °C (-40 °F) to + 70 °C (+158 °F)








- Recommended DIN 74304 and DIN 74325 fittings and DIN 3017 clamps
- Automotive application
- Nitrosamine free compounds
- Burst Pressure Value 4:1



Tolerances

According to DIN 74310

Refer to Technical Handbook on page TH34

Part Number				Working Pressure					in Stock
	I.D. (mm)	O.D. (mm)		MPa	psi	bar			
IH30315105/40	7	14	1.0	150.0	10	0.16	55	N	
IH30315103/40	9	16	1.0	150.0	10	0.19	65	N	
IH30315116/40	11	18	1.0	150.0	10	0.22	70	Y	
IH30315115/40	13	25	1.0	150.0	10	0.49	100	Y	
IH30315102/80*	15	25	1.0	150.0	10	0.44	115	N	

*Not complying the norm



AIRBRAKE SAE J 1402-A

According to SAE J 1402-A

Widely used in automotive air brake systems.

Hose Construction

Tube: Black, smooth, NBR/SBR rubber compound

Reinforcement: Synthetic textile yarns

Cover: Black, smooth, abrasion, ageing and weather-resistant CR rubber compound

Temperature Range

-40 °C (-40 °F) to + 93 °C (+200 °F)



- Tighter tolerances on ID and OD
- Automotive application
- Superior cover compound resistant to abrasion and weathering
- Burst Pressure Value 4:1

Tolerances

According to SAE J1402 – TABLE A
Refer to Technical Handbook on page TH34

Part Number	Nominal Diameter		O.D. (mm)	Working Pressure			Weight kg/m	min. Bend Radius mm	in Stock
	(mm)	(inch)		MPa	psi	bar			
IH30315117/40	3/8	9.5	19	1.5	217.0	15	0.30	89	Y
IH30315119/40	1/2	12.7	22.2	1.5	217.0	15	0.37	102	Y
IH30315122/40	-	14.5	24.5	1.5	217.0	15	0.43	131	N
IH30315121/40	5/8	15.9	27	1.5	217.0	15	0.53	114	N



AUTOGAS ECE 67/110 CLASS 2

According to ECE 67 and 110 Class 2

Low pressure hoses, designed according to regulation ECE 67, 01, Annex 8, Class 2 and ECE 110, 02, Annex 4b, Class 2.

Suitable for low pressure delivery of LPG and methane CNG alternative fuel kits.

Hose Construction

Tube: Black, smooth, insulating (R > 1 MΩ/m), LPG and methane permeation resistant NBR rubber compound

Reinforcement: Synthetic textile yarns

Cover: Black, smooth, insulating (R > 1 MΩ/m), CSM rubber compound resistant to ageing, heat, abrasion, ozone and weathering








- Insulating cover and tube compounds
- Exceeds DIN 4815 Teil 4
- Available pre-formed on request
- Very low permeation values closed to zero
- Burst Pressure Value 4:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH34

Temperature Range

-25 °C (-13 °F) to +120 °C (+ 248 °F)

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight kg/m	 min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH30510060/50	4	10	0.45	65.0	4.5	0.09	35	Y
IH30510027/50	5	10.5	0.45	65.0	4.5	0.09	40	Y
IH30510061/50	6.3	13	0.45	65.0	4.5	0.14	50	Y
IH30510064/50	10	17	0.45	65.0	4.5	0.20	80	Y
IH30510065/50	12	19	0.45	65.0	4.5	0.23	100	Y
IH30510066/50	14	22	0.45	65.0	4.5	0.30	115	Y
IH30510067/50	16.5	24.5	0.45	65.0	4.5	0.34	135	Y
IH30510069/50	19	27	0.45	65.0	4.5	0.39	150	Y



CARBOPRESS SAE J 30 R7

According to SAE J 30 R7

Low permeability, fire resistant hose, for lead and unleaded fuels in car and motorbike engines and gearbox lubricants where high performance and compliance to standards are important issue. Hose meets the American Standard SAE J30 R7.

Hose Construction

Tube: Black, smooth, antistatic (R < 1 MΩ/m) NBR rubber compound, resistant to oils, fuels and unleaded petrol with aromatic content not exceeding 50 %

Reinforcement: Synthetic textile yarns

Cover: Black, smooth, antistatic (R < 1 MΩ/m) CR rubber compound resistant to oils, abrasion, weather and fire



- Exceeds SAE J 30 R7 in WP
- Antistatic cover and tube compounds
- Suitable for B100 up to 70 °C
- Superior cover compound resistant to abrasion and weathering
- Burst Pressure Value 4:1

Tolerances

According to SAE J30 R7
Refer to Technical Handbook on page TH34

Temperature Range

-40 °C (-40 °F) to +125 °C (+257 °F)

Part Number	I.D. (mm)	O.D. (mm)	Working Pressure			Weight kg/m	min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH30872400/100	4	9.1	1.0	150.0	10	0.07	30	N
IH30872401/100	4.8	10.3	1.0	150.0	10	0.09	40	N
IH30872402/100	6.4	12.7	1.0	150.0	10	0.13	55	Y
IH30872403/100	8	14.3	1.0	150.0	10	0.16	65	Y
IH30872404/100	9.5	15.9	1.0	150.0	10	0.18	75	Y
IH30872405/100	12.7	19.9	1.0	150.0	10	0.25	100	Y



TBSE

Designed for general applications in fuel systems where low permeability levels are required. Suitable for leaded and unleaded fuels and diesel.

Hose Construction

Tube: Black, oil and fuel resistant, smooth, antistatic ($R < 1 \text{ M}\Omega/\text{m}$), NBR rubber compound

Reinforcement: Synthetic textile yarns

Cover: Black, oil, fuel, abrasion, weather-resistant, smooth, antistatic ($R < 1 \text{ M}\Omega/\text{m}$), NBR/EPDM rubber compound

Temperature Range

-30 °C (-22 °F) to +100 °C (+212 °F)



- Antistatic cover and tube compounds
- Low permeability
- Suitable for B20 and E100 up to 70 °C
- Available packaging in reels for display stand
- Burst Pressure Value 3:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH34

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight	 min. Bend Radius	in Stock
			MPa	psi	bar			
Coils								
IH30871001/100	4	9	1.0	150.0	10	0.07	30	Y
IH30871011/100	5	10	1.0	150.0	10	0.08	40	Y
IH30871021/100	6	13	1.0	150.0	10	0.14	55	Y
IH30871031/100	7	13	1.0	150.0	10	0.13	55	Y
IH30871041/100	7.5	14	1.0	150.0	10	0.15	65	Y
IH30871051/100	10	16	1.0	150.0	10	0.17	75	Y
Reels								
IH30871001/15-R90*	4	9	1.0	150.0	10	0.07	30	Y
IH30871011/15-R90*	5	10	1.0	150.0	10	0.08	40	Y
IH30871021/15-R90*	6	13	1.0	150.0	10	0.14	55	Y
IH30871031/15-R90*	7	13	1.0	150.0	10	0.13	55	Y
IH30871041/15-R90*	7.5	14	1.0	150.0	10	0.15	65	Y
IH30871051/10-R60**	10	16	1.0	150.0	10	0.17	75	Y

* box quantity = 6 x 15 m (reels)

** box quantity = 6 x 10 m (reels)



TBE

Designed for particular applications in fuel systems where textile cover is requested. Suitable for leaded and unleaded fuels and diesel.

Hose Construction

Tube: Black, oil and fuel resistant, smooth NBR rubber compound

Reinforcement/

Cover: High tensile polyester textile over-braid, resistant to abrasion, fuel, oil and weathering

Temperature Range

-20 °C (-4 °F) to +90 °C (+194 °F)








- Available in reels only
- Suitable for B20 and E100 up to 70 °C
- Designed for motorbike fuel supply
- Burst Pressure Value 3:1

Tolerances

On inside diameter: + 0 / - 0.5 mm

Length tolerance: ± 1 %

Part Number				Working Pressure					in Stock
	I.D. (mm)	O.D. (mm)		MPa	psi	bar			
IH11001300/15-R90*	3	7	1.0	150.0	10	0.04	30	Y	
IH11001345/15-R90*	7.5	14.5	1.0	150.0	10	0.13	65	Y	



CARBOBLUE N/L 10 - 20

Parker Global Product

Carboblue is specially designed for applications where there is a requirement for extracting NOx (nitrogen oxide and its mixtures that emit polluted substances into the environment during air combustion) and dramatically reducing exhaust gas from diesel engines. These objectives are included in European parameters EURO IV and EURO V.

Hose Construction

Tube: Black, smooth, antistatic (R < 1 MΩ/m) and sulphur free EPDM rubber compound nitrosamine free with peroxide curing.

Extensive tests on tensile stress, cold bending, heat, and laceration resistance on compound in contact with the additive did not show alteration of its state. In addition, no contamination of the additive was present after 168 hours at the temperature of 70 °C.

Reinforcement: Synthetic textile fabrics
Cover: Black, smooth, antistatic (R < 1 MΩ/m), EPDM rubber compound nitrosamine free, ageing, heat and weather resistant



- Compatibility approved by Ad-Blue manufacturer
- Environmental friendly
- Nitrosamine free
- Available HW version to defrost and keep additive at the right temperature
- Burst Pressure Value 3:1








Temperature Range

-40 °C (-40 °F) +100 °C (+212 °F)
with peaks up to +120 °C (+248 °C)

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH34

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight kg/m	 min. Bend Radius mm	in Stock
			MPa	psi	bar			
CARBOBLUE N/L 10								
IH30515030/100	16	23	1.0	150.0	10	0.27	100	N
IH30515031/80	19	27	1.0	150.0	10	0.37	115	N
IH30515032/50	25	36	1.0	150.0	10	0.68	150	N
CARBOBLUE N/L 20								
IH30515042/100	4	10	2.0	300.0	20	0.08	30	N
IH30515043/100	6	12	2.0	300.0	20	0.11	40	Y
IH30515044/100	8	15	2.0	300.0	20	0.16	50	N
IH30515045/100	10	17	2.0	300.0	20	0.19	60	Y
IH30515046/100	13	20	2.0	300.0	20	0.23	80	Y
IH30515040/80	16	26	2.0	300.0	20	0.43	100	Y
IH30515041/80	19	30	2.0	300.0	20	0.56	115	N
IH30515047/50	25	37	2.0	300.0	20	0.76	150	N



CARBOPRESS EN ISO 7840 A1

CARBOCORD EN ISO 7840 A1

According to EN ISO 7840 A1

Fire resistant fuel hose suitable for loading diesel, leaded and unleaded fuels with an aromatic content not exceeding 50 %, for small craft of - 24 m length of hull with permanently installed inboard engines. According to EN ISO 7840 type A1 permeability (4 g/m² hour). Complies with the essential requirements given in the European Directive for small craft 94/25/EC. .

Hose Construction

Tube:	Black, smooth, antistatic (R < 1 MΩ/m), oil and fuel resistant NBR rubber compound
Reinforcement:	Synthetic textile yarns
Cover:	Black, smooth, antistatic (R < 1 MΩ/m), CR rubber compound resistant to abrasion, oil, fuel, weather and fire resistant



- Type approval by RINA and Lloyd's Register
- Suitable for small craft according to European Directive 94/25/EC
- Fire resistant fuel hose
- Burst Pressure Value 8:1

Tolerances

According to EN ISO 7840
Refer to Technical Handbook on page TH34

Temperature Range

-20 °C (-4 °F) to +100 °C (+212 °F)

Part Number	I.D. (mm)	O.D. (mm)	Working Pressure	Working Pressure			Weight	min. Bend Radius	in Stock
				MPa	psi	bar			
CARBOPRESS EN ISO 7840 A1									
IH30511049/100	5	15	0.34	49.3	3.4	0.22	30	N	
IH30511051/100	8	18	0.34	49.3	3.4	0.29	50	N	
IH30511057/100	10	20	0.34	49.3	3.4	0.32	60	Y	
IH30511053/80	12.5	22	0.34	49.3	3.4	0.37	75	N	
IH30511054/80	16	26	0.34	49.3	3.4	0.47	100	Y	
IH30511055/50	19	29	0.34	49.3	3.4	0.54	115	Y	
IH30511058/50	25	35	0.34	49.3	3.4	0.67	150	Y	
CARBOCORD EN ISO 7840 A1									
IH36521204/40*	38	50	0.25	36.25	2.5	1.10	380	Y	
IH36521207/40*	50	62	0.25	36.25	2.5	1.40	500	N	

*Mandrel Made production

RUBBER HOSE CARBOPRESS EN ISO 7840 A1 CE MADE IN ITALY Year with traceability code

RUBBER HOSE CARBOCORD EN ISO 7840 A1 CE Year MADE IN ITALY



CARBURITE EN ISO 7840 A1

According to EN ISO 7840 A1

Fire resistant fuel hose suitable for loading diesel, leaded and unleaded fuels with an aromatic content not exceeding 50 %, for small craft of - 24 m length of hull with permanently installed inboard engines. According to EN ISO 7840 type A1 permeability (4 g/m² hour). Complies with the essential requirements given in the European Directive for small craft 94/25/EC.

Hose Construction

- Tube:** Black, smooth, antistatic (R < 1 MΩ/m), oil and fuel resistant NBR rubber compound
- Reinforcement:** Synthetic textile yarns and embedded steel wire helix
- Cover:** Black, smooth, antistatic (R < 1 MΩ/m), NBR/SBR rubber compound resistant to abrasion, oil, fuel, weather and fire








- Type approval by RINA and Lloyd's Register
- Suitable for small craft according to European Directive 94/25/EC
- Fire resistant fuel hose
- Burst Pressure Value 8:1
- Vacuum 0.9 bar

Temperature Range

-20 °C (-4 °F) to +100 °C (+212 °F)

Tolerances

According to EN ISO 7840
Refer to Technical Handbook on page TH34

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight	 min. Bend Radius	in Stock
			MPa	psi	bar			
IH36531510/40	19	32	0.25	36.0	2.5	0.76	120	N
IH36531511/40	25	39	0.25	36.0	2.5	1.08	150	N
IH36531513/40	38	54	0.25	36.0	2.5	1.73	240	N
IH36530515/40	50	66	0.25	36.0	2.5	2.18	300	N



SM TR 311

According to EN ISO 7840 A1 and EN ISO 13363

Designed and approved for use in water cooling exhaust gas systems and also as fire resistant fuel hose for craft. Suitable for general loading and unloading oils and fuel service.

Hose Construction

Tube: Black, smooth, antistatic ($R < 1 \text{ M}\Omega/\text{m}$), NBR rubber compound, resistant to exhaust gas, sea water, oil and fuel having an aromatic content not exceeding 50 %

Reinforcement: Synthetic textile fabrics and embedded steel wire helix

Cover: Black, smooth, antistatic ($R < 1 \text{ M}\Omega/\text{m}$), NBR/SBR rubber compound, resistant to flame, heat, oil and fuel, abrasion, ageing and weathering



- Type approval by RINA and Lloyd's Register
- Designed for exhaust gas and refueling
- Suitable for craft according to European Directive 94/25/EC
- Fire resistant fuel hose
- Burst Pressure Value 6,5:1
- Vacuum 0.8 bar

Tolerances

On inside diameter

$\leq \text{I.D. } 38 \text{ mm}$ $\pm 0.79 \text{ mm}$

$\text{I.D. } 40 - 60 \text{ mm}$ $\pm 1.50 \text{ mm}$

$\geq \text{I.D. } 63.5 \text{ mm}$ $\pm 2.00 \text{ mm}$






Length tolerance $\pm 1 \%$

Note

Ondulated version on request

Temperature Range

-20 °C (-4 °F) to +100 °C (+212 °F)

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight kg/m	 min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH36971005/40	19	29	0.3	43.5	3	0.63	120	Y
IH36971006/40	25	35	0.3	43.5	3	0.77	150	Y
IH36974109/40	32	42	0.3	43.5	3	0.94	190	Y
IH36974107/40	38	48	0.3	43.5	3	1.09	230	Y
IH36974111/40	45	55	0.3	43.5	3	1.26	270	Y
IH36974112/40	50	60	0.3	43.5	3	1.41	300	Y
IH36974114/40	63.5	73.5	0.3	43.5	3	1.85	380	Y
IH36974115/20	76	86	0.3	43.5	3	2.29	455	Y
IH36974116/20	90	100	0.3	43.5	3	2.67	540	Y
IH36974117/20	102	113	0.3	43.5	3	3.24	610	Y
IH36974119/20	125	139	0.3	43.5	3	5.02	750	N
IH36974121/15*	150	171	0.3	43.5	3	10.00	900	N

*Comply only EN ISO 13363

RUBBER HOSE SM/TR 311 - EXHAUST AND FUEL HOSE - I.D. mm - CE.... - NORDIC BOAT STANDARD 1990 EN ISO 7840 A1 - EN ISO 13363:2004 Type 2 Class B - Quarter Year MADE IN ITALY



