



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



Hot water & Steam



ENGINEERING YOUR SUCCESS.



F – Hot water & Steam

Hose	ID Range (mm)	Temp. Range (°C)	Application
RADIOR 3	10 - 100	-40 / +100	cooling line system
RADIOR K 1003	12 - 65	-40 / +100	cooling line system
THERMOPRESS 10	12 - 60	-40 / +100	cooling line and hot water
INGLAS 30	10 - 85	-10 / +120	foudries cooling system
VAPORE 164 EN ISO 6134 Type 1/A	10 - 51	-40 / +164	steam industrial application
VIGOR EN ISO 6134 Type 2/A	13 - 51	-40 / +210	steam industrial application
VIGOR NR EN ISO 6134 Type 2/A	13 - 51	-40 / +210	steam industrial application

WARNING!

Steam hoses gradually decrease in performance during service life. Consequently, they need to be regularly inspected by trained personnel wearing adequate protective overalls, including eye protection.

Cuts and gouges in the hose cover showing the textile reinforcement. Steam leaks. Permanent deformation of hose. Reduction of steam flow. WHEN ONE OF THESE ABNORMALITIES OCCURS, THE HOSE SHOULD BE REMOVED FROM SERVICE AND INSPECTED. If a failure occurs close to the couplings, the damaged hose can be cut, reconnected and used as before.

Use only couplings with safety clamps. Follow the coupling manufacturer's instructions for coupling procedures. Check coupling tightness each time before use. Drain after use. When not in use, store the hose on a flat surface (shelves) and never hang from a hook.



	Tube	Reinforcement	Cover	WP (bar)	Safety factor	Suction	Industry standard	Page
	EPDM	textile	EPDM	3	3			F4 - F5
	NBR	textile	CR	5	3			F6
	EPDM	textile	EPDM	10	4			F7
	EPDM	textile	EPDM	10	3			F8
	EPM	textile	EPDM	6	10		EN ISO 6134 Type 1/A	F9
	IIR	textile	IIR/EPDM	18	10		ENISO6134Type2/A	F10
	IIR	textile	IIR/EPDM	18	10		ENISO6134Type2/A	F10



RADIOR 3 (COIL)

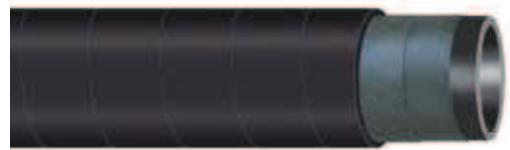
Designed for cooling systems of automotive engines and stationary engines.

Hose Construction

Tube: Black, smooth, heat resistant EPDM nitrosamine free rubber compound

Reinforcement: Synthetic textile yarn fabric

Cover: Black, smooth, heat, ageing and weather-resistant EPDM nitrosamine free rubber compound



- Light and flexible hose
- Also suitable as cable protection
- Nitrosamine free
- Burst Pressure Value 3:1








Temperature Range

-40 °C (-40 °F) to peaks of +100 °C (+212 °F)

Tolerances

I.D. ≤ 22 mm according to UNI EN ISO 1307
I.D. > 22 mm according to RMA steel mandrel
Refer to Technical Handbook on page TH34

Part Number				Working Pressure					min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)		MPa	psi	bar				
IH36830095/40	10	16	0.3	43.5	3	0.16	–	Y		
IH36830096/40	12	18	0.3	43.5	3	0.19	–	Y		
IH36830097/40	15	21	0.3	43.5	3	0.23	–	Y		
IH36830101/40	18	24.5	0.3	43.5	3	0.29	–	Y		
IH36830102/40	20	26.5	0.3	43.5	3	0.32	–	Y		
IH36830103/40	22	28.5	0.3	43.5	3	0.34	–	Y		
IH36830104/40	25	32	0.3	43.5	3	0.39	–	Y		
IH36830105/40	28	36	0.3	43.5	3	0.50	–	Y		
IH36830106/40	30	38	0.3	43.5	3	0.53	–	Y		
IH36830107/40	32	40	0.3	43.5	3	0.55	–	Y		
IH36830108/40	35	43	0.3	43.5	3	0.60	–	Y		
IH36830109/40	38	47	0.3	43.5	3	0.73	–	Y		
IH36830110/40	40	49	0.3	43.5	3	0.77	–	Y		
IH36830111/40	42	51	0.3	43.5	3	0.80	–	Y		
IH36830112/40	45	54	0.3	43.5	3	0.85	–	Y		
IH36831023/40	48	57	0.3	43.5	3	0.91	–	Y		
IH36830113/40	50	60	0.3	43.5	3	1.07	–	Y		
IH36830114/40	55	65	0.3	43.5	3	1.17	–	Y		
IH36830115/40	60	70	0.3	43.5	3	1.26	–	Y		
IH36830116/20	65	76	0.3	43.5	3	1.54	–	Y		
IH36830117/20	70	81	0.3	43.5	3	1.65	–	Y		
IH36831022/20	75	86	0.3	43.5	3	1.75	–	Y		
IH36830118/20	80	92	0.3	43.5	3	2.05	–	Y		
IH36830119/20	90	102	0.3	43.5	3	2.29	–	Y		
IH36830120/20	100	113	0.3	43.5	3	2.63	–	Y		

RUBBER HOSE RADIOR DIAM. I.D. mm MADE IN ITALY 



RADIOR 3 (CUT LENGTH)

Designed for cooling systems of automotive engines and stationary engines.

Hose Construction

Tube: Black, smooth, heat resistant EPDM nitrosamine free rubber compound
Reinforcement: Synthetic textile yarn fabric
Cover: Black, smooth, heat, ageing and weather-resistant EPDM nitrosamine free rubber compound



- Light and flexible hose
- In piece of 1 m length
- Straight piece without snake effect
- Nitrosamine free
- Burst Pressure Value 3:1



Temperature Range






-40 °C (-40 °F) to peaks of +100 °C (+212 °F)

Tolerances

I.D. ≤ 22 mm according to UNI EN ISO 1307

I.D. > 22 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			
IH36830023/1	15	21	0.3	43.5	3	0.23	–	Y
IH36830001/1	18	24.5	0.3	43.5	3	0.29	–	Y
IH36830002/1	20	26.5	0.3	43.5	3	0.32	–	Y
IH36830003/1	22	28.5	0.3	43.5	3	0.34	–	Y
IH36830004/1	25	32	0.3	43.5	3	0.39	–	Y
IH36830005/1	28	36	0.3	43.5	3	0.50	–	Y
IH36830006/1	30	38	0.3	43.5	3	0.53	–	Y
IH36830007/1	32	40	0.3	43.5	3	0.55	–	Y
IH36830008/1	35	43	0.3	43.5	3	0.60	–	Y
IH36830009/1	38	47	0.3	43.5	3	0.73	–	Y
IH36830010/1	40	49	0.3	43.5	3	0.77	–	Y
IH36830011/1	42	51	0.3	43.5	3	0.80	–	Y
IH36830012/1	45	54	0.3	43.5	3	0.85	–	Y
IH36831030/1	48	57	0.3	43.5	3	0.91	–	Y
IH36830013/1	50	60	0.3	43.5	3	1.07	–	Y
IH36830014/1	55	65	0.3	43.5	3	1.17	–	Y
IH36830015/1	60	70	0.3	43.5	3	1.26	–	Y
IH36830016/1	65	76	0.3	43.5	3	1.54	–	Y
IH36830017/1	70	81	0.3	43.5	3	1.65	–	Y
IH36831031/1	75	86	0.3	43.5	3	1.75	–	Y
IH36830018/1	80	92	0.3	43.5	3	2.05	–	Y
IH36830019/1	90	102	0.3	43.5	3	2.29	–	Y
IH36830020/1	100	113	0.3	43.5	3	2.63	–	Y

RUBBER HOSE RADIOR DIAM. I.D. mm MADE IN ITALY 



RADIOR K 1003

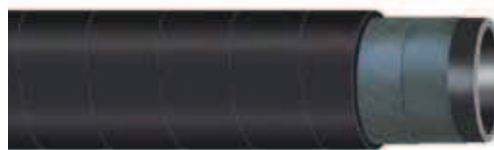
Designed for heating and cooling systems, resistant to ASTM I/II/III oil up to +100 °C (+212 °F) with peaks up to +120 °C (+248 °F) and diesel fuel up to +50 °C (+122 °F).

Hose Construction

Tube: Black, smooth, heat resistant NBR rubber compound
Reinforcement: Synthetic textile fabrics yarns
Cover: Black, smooth, wrapped finish, heat, ageing and weather-resistant CR rubber compound

Temperature Range

-40 °C (-40 °F) to +100 °C (+212 °F)








- Superior Chloroprene cover compound for oil and fuel resistance
- Also suitable for B100
- Light and flexible hose
- Burst Pressure Value 3:1

Tolerances

I.D. ≤ 22 mm according to UNI EN ISO 1307

I.D. > 22 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			
IH30831300/40	12	19	0.5	72.5	5	0.24	–	Y
IH30831302/40	15	22	0.5	72.5	5	0.28	–	Y
IH30831303/40	18	25	0.5	72.5	5	0.33	–	Y
IH30831305/40	22	29	0.5	72.5	5	0.39	–	Y
IH36831300/40	25	32	0.5	72.5	5	0.41	–	Y
IH36831301/40	28	35	0.5	72.5	5	0.45	–	Y
IH36831303/40	32	39	0.5	72.5	5	0.51	–	Y
IH36831305/40	38	45	0.5	72.5	5	0.59	–	Y
IH36831308/20	45	56	0.5	72.5	5	1.11	–	N
IH36831309/20	50	61	0.5	72.5	5	1.22	–	Y
IH36831311/20	60	71	0.5	72.5	5	1.43	–	N
IH36831312/20	65	76	0.5	72.5	5	1.54	–	N



THERMOPRESS 10

Suitable for delivery of hot water, non-aggressive hot liquids and steam to a maximum temperature of +120 °C (+248 °F). To connect boilers to air conditioning units and for hot water cleaning systems.

Hose Construction

- Tube:** Black, smooth, heat resistant, EPDM nitrosamine free rubber compound
- Reinforcement:** Synthetic textile fabrics or yarns
- Cover:** Black, smooth, heat, ageing and weather-resistant EPDM nitrosamine free rubber compound

Temperature Range

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



- Robust structure
- Wide temperature range
- Nitrosamine free
- Burst Pressure Value 4:1








Tolerances

I.D. ≤ 22 mm according to UNI EN ISO 1307

I.D. > 22 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			
IH36800002/100	12	22.5	1.0	150.0	10	0.38	120	Y
IH36800003/80	15	25.5	1.0	150.0	10	0.44	150	Y
IH36800004/80	18	28.5	1.0	150.0	10	0.51	180	Y
IH36800005/80	20	30.5	1.0	150.0	10	0.56	200	Y
IH36800006/40	25	35	1.0	150.0	10	0.61	250	Y
IH36800007/40	30	41	1.0	150.0	10	0.79	300	Y
IH36800009/40	40	54	1.0	150.0	10	1.34	400	Y
IH36800011/40	50	68	1.0	150.0	10	2.12	500	Y
IH36800012/40	60	82	1.0	150.0	10	3.10	600	N



INGLAS 30

Suitable for cooling water delivery in foundries, steel and glass factories. Particularly designed to withstand short contacts with molten metal and glass.

Hose Construction

Tube: Black, smooth EPDM insulating rubber compound. Resistant to hot air and hot water

Reinforcement: Synthetic textile fabrics

Cover: Black, smooth, EPDM rubber compound, heat, abrasion and weather resistant, covered by protective glass fiber

Temperature Range

-40 °C (-40 °F) - maximum of +120 °C (+248 °F)

The cover withstands peaks of +375 °C (+707 °F)








- High peaks of temperature
- Specific for foundries, furnaces and glass factories
- White cover in fiber glass
- Burst Pressure Value 3:1

Tolerances

According to RMA steel mandrel

Refer to Technical Handbook on page TH34

Part Number				Working Pressure					in Stock
	I.D. (mm)	O.D. (mm)		MPa	psi	bar			
IH42302702/40	10	20	1.0	150.0	10	0.27	80	Y	
IH42302704/40	13	23	1.0	150.0	10	0.33	105	Y	
IH42302710/40	19	31	1.0	150.0	10	0.56	155	Y	
IH42302716/40	25	39	1.0	150.0	10	0.88	200	Y	
IH42302718/40	32	48	1.0	150.0	10	1.23	255	Y	
IH42302726/40	38	58	1.0	150.0	10	1.89	300	Y	
IH42302732/40	42	60	1.0	150.0	10	1.69	340	Y	
IH42302724/40	45	62	1.0	150.0	10	1.71	360	Y	
IH42302740/40	51	69	1.0	150.0	10	2.05	400	Y	
IH42302754/40	65	87	1.0	150.0	10	3.21	520	Y	
IH42302758/40	85	116	1.0	150.0	10	5.47	680	Y	



VAPORE 164 EN ISO 6134 TYPE 1/A

According to EN ISO 6134 type 1/A

Designed for saturated steam (max 6 bar at +164 °C = 90 psi at +327 °F) in general industrial applications.

Hose Construction

- Tube:** Black, smooth, EPM nitrosamine free rubber compound, heat and saturated steam resistant
- Reinforcement:** High resistant synthetic textile fabrics
- Cover:** Black or red (NR), smooth, EPDM nitrosamine free rubber compound, heat, abrasion, ozone and weather resistant. The cover is pinpricked to prevent blistering and bubbling.








- Nitrosamine free 
- Pin-pricked cover
- Available on request with red cover
- Working pressure for hot water 20 bar with a safety factor of 3:1
- Burst Pressure Value 10:1

Tolerances

According to EN ISO 6134
Refer to Technical Handbook on page TH34

Temperature Range

-40 °C (-40 °F) to +164 °C (+327 °F)

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight kg/m	 min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH36800098/40	10	21	0.6	90.0	6	0.29	100	N
IH36800088/40	13	25	0.6	90.0	6	0.35	130	Y
IH36800089/40	16	30	0.6	90.0	6	0.39	150	Y
IH36800090/40	19	33	0.6	90.0	6	0.70	190	Y
IH36800091/40	25	40	0.6	90.0	6	0.92	250	Y
IH36800092/40	32	48	0.6	90.0	6	1.11	320	N
IH36800093/40	38	54	0.6	90.0	6	1.42	380	N
IH36800096/40	51	69	0.6	90.0	6	2.07	500	N

WARNING! see page G2



VIGOR EN ISO 6134 TYPE 2/A

According to EN ISO 6134 type 2/A

Designed for high pressure saturated steam (max 18 bar at +210 °C = 261 psi at +410 °F). Suitable for loading saturated and superheated steam in cleaning and sterilization applications, petrochemical industry and general steam service applications

Hose Construction

Tube: Black, smooth, extruded IIR rubber compound. Heat and saturated steam resistant

Reinforcement: High tensile steel cords

Cover: Black, smooth, extruded IIR/EPDM rubber compound. Heat, abrasion, ozone and weather resistant. The cover is pinpricked to prevent blistering and bubbling.



- Wide range temperature
- Pin-pricked cover
- Two cover color lines: black and red
- Working pressure for hot water 45 bar with a safety factor of 4:1
- Burst Pressure Value 10:1






Tolerances

According to EN ISO 6134

Refer to Technical Handbook on page TH34

Temperature Range

-40 °C (-40 °F) to +210 °C (+410 °F)
with peaks up to +235 °C (+455 °F)

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight kg/m	 min. Bend Radius mm	in Stock
			MPa	psi	bar			
VIGOR black								
IH36801740/40	13	25	1.8	261.0	18	0.51	130	Y
IH36801741/40	16	30	1.8	261.0	18	0.70	160	N
IH36801742/40	19	33	1.8	261.0	18	0.77	190	Y
IH36801743/40	25	40	1.8	261.0	18	1.06	250	Y
IH36801744/40	32	48	1.8	261.0	18	1.39	320	N
IH36801745/40	38	54	1.8	261.0	18	1.60	380	N
IH36801746/40	51	69	1.8	261.0	18	2.56	500	N
VIGOR red								
IH36801770/40	13	25	1.8	261.0	18	0.51	130	N
IH36801771/40	16	30	1.8	261.0	18	0.70	160	N
IH36801772/40	19	33	1.8	261.0	18	0.79	190	N
IH36801773/40	25	40	1.8	261.0	18	1.06	250	N
IH36801774/40	32	48	1.8	261.0	18	1.41	320	N
IH36801775/40	38	54	1.8	261.0	18	1.62	380	N
IH36801776/40	51	69	1.8	261.0	18	2.59	500	N

WARNING! see page G2

RUBBER HOSE VIGOR - EN ISO 6134:2005 - 2A - steam - 18 bar - 210 °C - I.D. mm - Ø - MADE IN ITALY 

RUBBER HOSE VIGOR - EN ISO 6134:2005 - 2A - steam - 18 bar - 210 °C - I.D. mm - Ø - MADE IN ITALY 