

# INDUSTRIAL HOSES - air and water

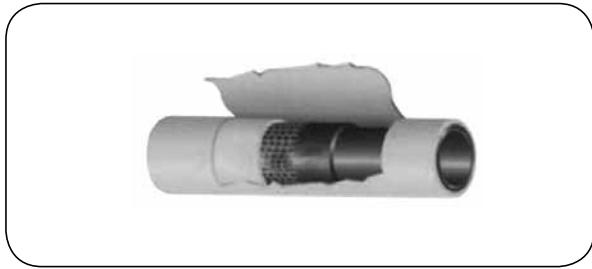
## Characteristics

Hoses for air and water designed for industrial water, sewage, cooling water, washdown, compressed air (compressors, pneumatic tools, hose reels) and some for food products. Made of rubber, PVC, polyethylene with textile braid, PVC or steel wire helix. Apart from general purpose hoses in this group we distinguish hoses for:

- cooling installations in steel mills,
- fire equipment,
- portable toilets,
- car and rail brake systems,
- cooling systems in cars,
- motor and pleasure boats,
- snow cannons,
- hot air in tank trucks.

Fittings for air and water hoses (see chapter "INDUSTRIAL FITTINGS - fittings, connectors") can be mounted with worm drive clamps, safety clamps or crimped.

For air and water hoses see also: food hoses, steel hoses, PTFE hoses, TYGON®, or chapters: "HIGH PRESSURE" and "INDUSTRIAL PNEUMATICS".



## TRICOFLEX

**Internal layer:** Two layers of black PVC  
**Reinforcement:** Strong textile braid  
**External layer:** Yellow PVC  
**Working temp.:** From -15°C up to +60°C

General purpose flexible delivery hose. Double internal layer and a strong textile knitted braid ensure better tensile strength. External layer resistant to abrasion and UV radiation. Due to its construction recommended for irrigation systems in agriculture, gardening and construction industry.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
TR-TRICOFLEX-13	12.5	18	10	25	62.5	0.14	50
TR-TRICOFLEX-15	15	20.5	10	25	67.5	0.18	50
TR-TRICOFLEX-19	19	25.5	9.2	23	90	0.26	50
TR-TRICOFLEX-25	25	32.5	8	20	120	0.44	50
TR-TRICOFLEX-30	30	39	8	20	150	0.64	50
TR-TRICOFLEX-35	35	45	8	20	175	0.82	50
TR-TRICOFLEX-40	40	51	8	20	200	1.03	50
TR-TRICOFLEX-50	50	63	8	20	250	1.51	50

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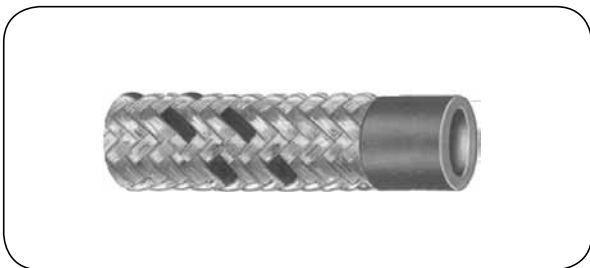


### VACUPRESS FLEX

**Internal layer:** Black plasticized PVC  
**Reinforcement:** Polyester yarn, steel wire helix  
**External layer:** Black plasticized PVC  
**Working temp.:** From -25°C up to +60°C

Highly flexible, lighter than rubber hoses, suction-delivery hose designed to transfer dry materials, water, sewage, mud. Widely used in irrigation systems, loading and unloading of tank trucks, industrial plant engineering, etc. Remains very flexible even at low temperatures. Smooth internal and external layer facilitate maintaining highest hygiene standards and increase reloading rate by 20%. Resistant to weather conditions and abrasion (according to ISO 4649: 150 mm<sup>3</sup>). Available in straight (not bent) lengths from 3 to 6 meters.

code	I.D. [mm]	O.D. [mm]	working press. 20°C [bar]	bursting press. 20°C [bar]	vacuum [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
ME-VACUPRFX-050	50	63	12	36	0.9	150	1.60	30
ME-VACUPRFX-060	60	74	12	36	0.9	180	2.00	30
ME-VACUPRFX-076	76	92	12	36	0.9	210	2.90	30
ME-VACUPRFX-080	80	96	10	30	0.9	220	2.95	30
ME-VACUPRFX-090	90	107	10	30	0.9	250	3.50	30
ME-VACUPRFX-102	102	119	10	30	0.9	300	4.00	30
ME-VACUPRFX-120	120	138	8	24	0.9	350	5.30	20
ME-VACUPRFX-127	127	145	7	21	0.9	370	5.80	20
ME-VACUPRFX-152	152	171	5	15	0.9	480	6.85	20



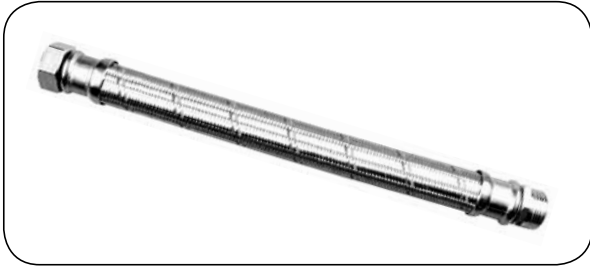
### ZINCOFLEX - C

**Internal layer:** Non-toxic EPDM rubber  
**Reinforcement:** Galvanized steel braid  
**Working temp.:** From -10°C up to +100°C

Hose designed for water and non-corrosive fluids. Widely used in sanitary systems, boilers and cooling systems. Two red stripes in the braid of the hose indicate the resistance to high fluid temperature.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	standard length [m]
RK-ZCF-C-10	10	13.2	15	60	40	50
RK-ZCF-C-13	13	18	15	60	60	50
RK-ZCF-C-19	19	25	10	40	80	50
RK-ZCF-C-25	25	32	10	40	100	50
RK-ZCF-C-32	32	41	10	40	160	50
RK-ZCF-C-40	40	51	6	24	180	50
RK-ZCF-C-50	50	62	6	24	230	50

# INDUSTRIAL HOSES - air and water



## WS - ST WS - GI

**Internal layer:** Black EPDM rubber  
(with increased parameters)

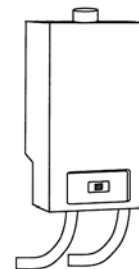
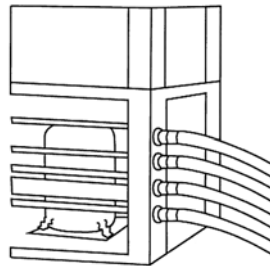
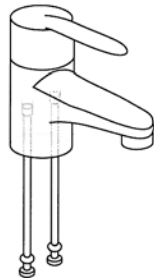
**Reinforcement:** External AISI 304 braid

**Working temp.:** Up to +110°C

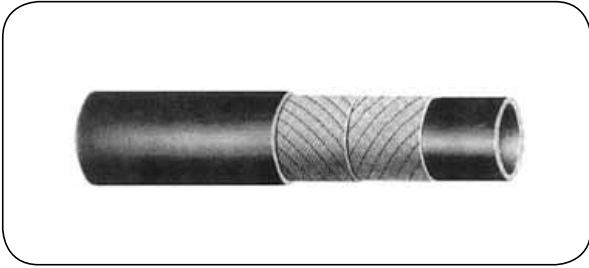
Flexible hose assembly designed for sanitary systems (hot and cold water). Widely used in industrial installations, central heating and air-conditioning. Resistant to glycol (concentration to 35%). Available with brass fitting and stainless steel (AISI 304) ferrules. Hose assemblies with different thread types and lengths available on request. Holds technical approval to be used in construction industry.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	thread 1 [inch]	thread 2 [inch]	flow max. * [l/min.]	length [mm]	
VO-ST-06DP-06DP-020	8	13	16	3/8 female	3/8 female	29	200	
VO-ST-06DP-06DP-040							400	
VO-ST-06DP-06DP-060							600	
VO-ST-06DP-06DP-080							800	
VO-ST-06DP-06DP-100							1000	
VO-ST-08DP-08DP-020							200	
VO-ST-08DP-08DP-040	400							
VO-ST-08DP-08DP-060	600							
VO-ST-08DP-08DP-080	800							
VO-ST-08DP-08DP-100	1000							
VO-GI-08DP-08DP-030	12	20		1/2 female	1/2 female	65	300	
VO-GI-08DP-08DP-040							400	
VO-GI-08DP-08DP-050			500					
VO-GI-08DP-08MP-030			300					
VO-GI-08DP-08MP-040			400					
VO-GI-08DP-08MP-050			500					
VO-GI-12DP-12DP-030			3/4 female	3/4 female	3/4 female	3/4 female	65	300
VO-GI-12DP-12DP-040								400
VO-GI-12DP-12DP-050								500
VO-GI-12DP-12MP-030								300
VO-GI-12DP-12MP-040								400
VO-GI-12DP-12MP-050								500

\* - at 3 bar working pressure



## INDUSTRIAL HOSES - air and water

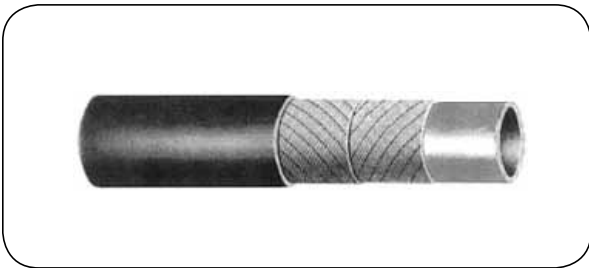


### TUBES 2116

**Internal layer:** Black EPDM rubber  
**Reinforcement:** Polyester braid  
**External layer:** Red EPDM rubber  
**Working temp.:** From -40°C up to +100°C

General purpose industrial hose designed for air and water transfer. Widely used in hot water washdown applications to clean floors and equipment. Suitable for outdoor usage. Resistant to weather conditions and abrasion.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
PR-TU2116-13	13	21	10	40	40	0.27	60
PR-TU2116-16	16	26	10	40	60	0.41	60
PR-TU2116-19	19	28.5	10	40	90	0.45	60
PR-TU2116-25	25	35	10	40	120	0.60	40



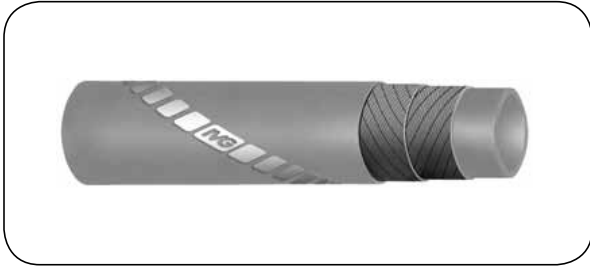
### TUBES 2116 T

**Internal layer:** White EPDM rubber  
**Reinforcement:** Polyester braid  
**External layer:** Red or blue EPDM rubber  
**Working temp.:** From -40°C up to +100°C

General purpose industrial hose designed for air and water transfer. Widely used in hot water washdown applications to clean floors and equipment. Suitable for outdoor usage. Resistant to weather conditions and abrasion.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
TUBES 2116 T (red external layer)							
PR-TU2116T-13R	13	23	10	40	152	0.44	100
PR-TU2116T-16R	16	28	10	40	191	0.63	100
PR-TU2116T-19R	19	32	10	40	228	0.79	100
PR-TU2116T-25R	25	39	10	40	305	1.041	100
TUBES 2116 T (blue external layer)							
PR-TU2116T-13BL	13	23	10	40	152	0.44	100
PR-TU2116T-16BL	16	28	10	40	191	0.63	100
PR-TU2116T-19BL	19	32	10	40	228	0.79	100
PR-TU2116T-25BL	25	39	10	40	305	1.041	100

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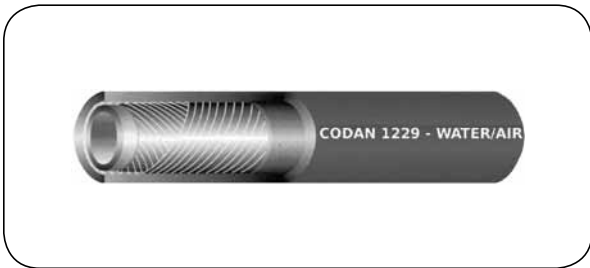


### MICHIGAN®

**Internal layer:** White SBR rubber  
**Reinforcement:** Synthetic braid  
**External layer:** White EPDM rubber  
**Working temp.:** From -40°C up to +80°C

Industrial hose designed for washdown application to clean floors and equipment in e.g. meat, food and dairy industries. Suitable for outdoor usage. Resistant to weather conditions and abrasion.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-MICHIGAN-013	13	20	10	30	0.24	120
IV-MICHIGAN-016	16	24	10	30	0.31	120
IV-MICHIGAN-019	19	26	10	30	0.29	120
IV-MICHIGAN-025	25	34	10	30	0.54	120
IV-MICHIGAN-032	32	46	10	30	1.10	120
IV-MICHIGAN-038	38	54	10	30	1.44	120



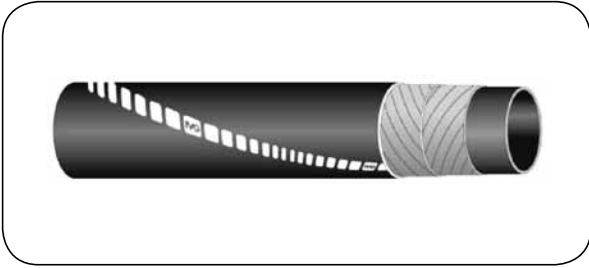
### CODAN 1225, 1228, 1229

**Internal layer:** Black EPDM rubber  
**Reinforcement:** Synthetic braid  
**External layer:** EPDM rubber (1225 - black, 1228 - blue, 1229 - red)  
**Working temp.:** From -30°C up to +95°C (20 bar)  
 From -30°C up to +140°C (10 bar)  
 (with peaks up to +160°C).

Special purpose hose designed for particularly heavy working conditions that require flexibility, resistance to weather conditions and ozone. Recommended for air and water, for injection moulds in particular. The application in temperature above +95°C shortens hose service life.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
CO-122...-10	9.5	16.5	20	60	50	0.23	50
CO-122...-13	12.7	21.5	20	60	65	0.36	50
CO-122...-19	19	27	20	60	105	0.45	30
CO-122...-25	25	35.5	20	60	145	0.80	30

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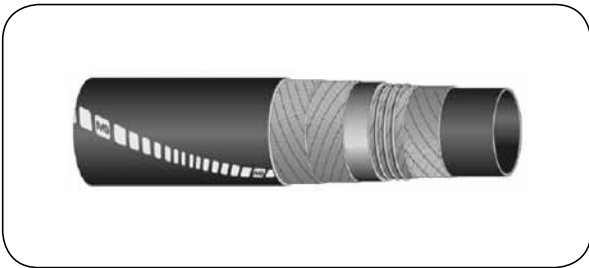


### OSLO 10®

**Internal layer:** Black synthetic rubber  
**Reinforcement:** Synthetic braid  
**External layer:** Black synthetic rubber  
**Working temp.:** From -25°C up to +70°C

Delivery hose designed for the most severe working conditions. Widely used for water transfer, irrigation and draining systems, sewer cleaning, etc. Resistant to abrasion and ozone.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-OSLO10-032	32	38	10	30	0.42	120
IV-OSLO10-038	38	45	10	30	0.54	120
IV-OSLO10-051	51	58	10	30	0.73	120
IV-OSLO10-063	63.5	70	10	30	0.79	120
IV-OSLO10-076	76	83	10	30	1.04	120
IV-OSLO10-090	90	98	10	30	1.43	120
IV-OSLO10-102	102	110	10	30	1.58	120
IV-OSLO10-110	110	118	10	30	1.64	120
IV-OSLO10-127	127	135	10	30	1.92	120
IV-OSLO10-152	152	160	10	30	2.29	120
IV-OSLO10-203	203	215.5	10	30	4.76	120
IV-OSLO10-254	254	270	10	30	7.87	120



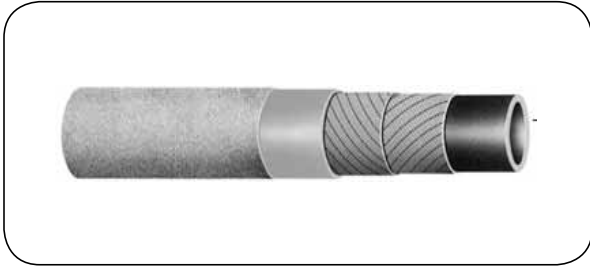
### TORONTO LIGHT®

**Internal layer:** Black SBR rubber  
**Reinforcement:** Synthetic braid, steel wire helix  
**External layer:** Black SBR rubber  
**Working temp.:** From -30°C up to +70°C

Suction and delivery hose designed to transfer industrial water, sewage, mud, drainage, etc. Resistance to kinking and a strong construction makes it suitable for heavy-duty applications. Vacuum 0.9 bar. Resistant to weather conditions.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
IV-TORONTO-L-019	19	27	10	30	95	0.41	120
IV-TORONTO-L-025	25	33	10	30	125	0.51	120
IV-TORONTO-L-032	32	40	10	30	160	0.65	120
IV-TORONTO-L-038	38	47.5	10	30	190	0.94	120
IV-TORONTO-L-040	40	49.5	10	30	200	0.98	120
IV-TORONTO-L-051	51	60.5	10	30	255	1.14	120
IV-TORONTO-L-063	63.5	75	10	30	381	2.10	120
IV-TORONTO-L-076	76	87	10	30	456	2.41	120
IV-TORONTO-L-102	102	114	10	30	612	3.69	120
IV-TORONTO-L-110	110	125	10	30	770	3.97	120
IV-TORONTO-L-127	127	143	10	30	889	5.17	120
IV-TORONTO-L-152	152	170.5	10	30	1064	7.27	120
IV-TORONTO-L-203	203	225	10	30	1421	12.31	60
IV-TORONTO-L-254	254	278	5	15	1778	22.95	12

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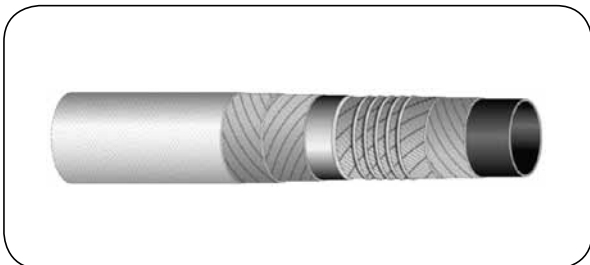


### ESSEN®

- Internal layer:** Black EPDM rubber
- Reinforcement:** Synthetic braid
- External layer:** EPDM rubber covered with glass fibre
- Working temp.:** From -40°C up to +120°C (external layer up to +530°C)

Delivery hose designed for cooling water transfer in steel mills, foundries and any application where a rubber hose operates close to the source of heat. Resistant to high ambient temperature. Widely used in cooling systems. Particularly recommended for water installations at metallurgical furnaces. Resistant to the temporary impact of hot metal splashes.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-ESSEN-013	13	23	10	30	0.33	120
IV-ESSEN-019	19	31.5	10	30	0.59	120
IV-ESSEN-025	25	37	10	30	0.69	120
IV-ESSEN-032	32	44	10	30	0.85	120
IV-ESSEN-038	38	53	10	30	1.32	120
IV-ESSEN-045	45	62	10	30	1.79	120
IV-ESSEN-051	51	67.5	10	30	1.89	120
IV-ESSEN-063	63.5	80	10	30	2.29	120
IV-ESSEN-076	76	96	10	30	3.30	120
IV-ESSEN-090	90	110	10	30	3.85	120
IV-ESSEN-102	102	124	10	30	4.82	120



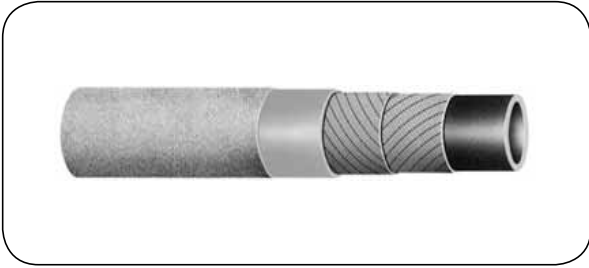
### ESSEN / LL®

- Internal layer:** Black SBR rubber
- Reinforcement:** Synthetic braid, steel wire helix
- External layer:** EPDM rubber covered with glass fibre
- Working temp.:** From -40°C up to +70°C (external layer up to +530°C)

Suction - delivery hose designed for cooling water transfer in steel mills, foundries and any application where a rubber hose operates close to the source of heat. Resistant to high ambient temperature. Widely used in cooling systems. Particularly recommended for water installations at metallurgical furnaces. Resistant to the temporary impact of hot metal splashes. Vacuum 0.9 bar.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
IV-ESSEN-LL-012	12	23	10	30	85	0.46	120
IV-ESSEN-LL-019	19	31	10	30	95	0.76	120
IV-ESSEN-LL-025	25	37	10	30	115	0.92	120
IV-ESSEN-LL-032	32	44	10	30	150	1.09	120
IV-ESSEN-LL-038	38	51	10	30	180	1.49	120
IV-ESSEN-LL-051	51	64	10	30	245	1.97	120
IV-ESSEN-LL-063	65	79	10	30	315	2.76	120
IV-ESSEN-LL-076	76	92	10	30	375	3.60	120
IV-ESSEN-LL-102	102	120	10	30	530	5.39	120

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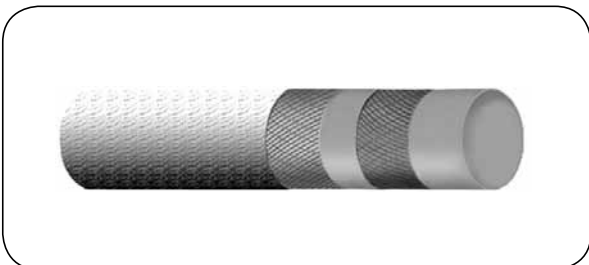


### ESSEN 20®

**Internal layer:** White EPDM rubber  
**Reinforcement:** Synthetic braid  
**External layer:** EPDM rubber covered with glass fibre  
**Working temp.:** From -40°C up to +120°C (external layer up to +530°C)

Delivery hose designed for cooling water transfer in steel mills, foundries and any application where a rubber hose operates close to the source of heat. Resistant to high ambient temperature. Widely used in cooling systems. Particularly recommended for water installations at metallurgical furnaces. Resistant to the temporary impact of hot metal splashes. Electrical resistance  $10^8 \Omega/m$ .

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-ESSEN20-013	13	23	20	60	0.33	120
IV-ESSEN20-016	16	26	20	60	0.39	120
IV-ESSEN20-019	19	31	20	60	0.52	120
IV-ESSEN20-025	25	38.5	20	60	0.82	120
IV-ESSEN20-032	32	46.5	20	60	1.06	120
IV-ESSEN20-038	38	54	20	60	1.39	120
IV-ESSEN20-051	51	67	20	60	1.80	120
IV-ESSEN20-060	60	80	20	60	2.69	120
IV-ESSEN20-063	63.5	82.5	20	60	2.62	120
IV-ESSEN20-076	76	93.5	20	60	2.74	120
IV-ESSEN20-090	90	109.5	20	60	3.62	120
IV-ESSEN20-102	102	125	20	60	4.81	120



### GEYSER / 20 - ED / FV

**Internal layer:** Light-blue EPDM rubber  
**Reinforcement:** Synthetic braid  
**External layer:** White EPDM rubber covered with vulcanized glass fibre ply  
**Working temp.:** From -35°C up to +120°C (external layer up to +400°C)

Delivery hose designed for cooling water transfer especially in metallurgical furnaces, electrical transformers and electrical transducers. Resistance to heat radiation (to +400°C) and splashes of hot metals. Internal layer resistant to electrical breakdown ( $E > 5000 \text{ V/mm}$ ).

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
MT-GEYSER20-EDFV-013	13	24	20	60	65	0.44	40
MT-GEYSER20-EDFV-019	19	32	20	60	95	0.62	40
MT-GEYSER20-EDFV-025	25	39	20	60	125	0.78	40
MT-GEYSER20-EDFV-032	32	48	20	60	160	1.05	40
MT-GEYSER20-EDFV-038	38	55	20	60	190	1.28	40
MT-GEYSER20-EDFV-050	50	68	20	60	250	1.78	40
MT-GEYSER20-EDFV-060	60	80	20	60	300	2.50	40
MT-GEYSER20-EDFV-075	75	95	20	60	380	2.90	40
MT-GEYSER20-EDFV-080	80	100	20	60	400	3.15	40
MT-GEYSER20-EDFV-100	100	124	20	60	500	4.90	40

Min. bending radius given for 1 bar working pressure.



## INDUSTRIAL HOSES - air and water



### TUBANO

**Material:** Moulded EPDM rubber  
**Working temp:** From -40°C up to +125°C

Hose used for cooling and heating installations, water, some acids and diluted alkalis. Resistant to high temperatures and ozone but with limited chemical resistance. Supplied in 1 m pieces to enable easy cutting and fitting into an installation.

code	I.D. [mm]	extensibility [mm]	working pressure [bar]	bending radius [mm]	standard length [m]
EC-102100	20	20 ÷ 25	1.5	70	1
EC-102101	25	25 ÷ 31	1.5	85	1
EC-102102	31.5	31.5 ÷ 36	1.5	105	1
EC-102103	33.5	33.5 ÷ 38	1.5	110	1
EC-102104	37	37 ÷ 44	1.5	115	1
EC-102105	44	44 ÷ 48	1.5	120	1
EC-102106	48	48 ÷ 55	1.5	125	1
EC-102107	55	55 ÷ 65	1.5	130	1
EC-102108	65	65 ÷ 75	1.5	140	1
EC-102109	80	80 ÷ 90	1.5	150	1



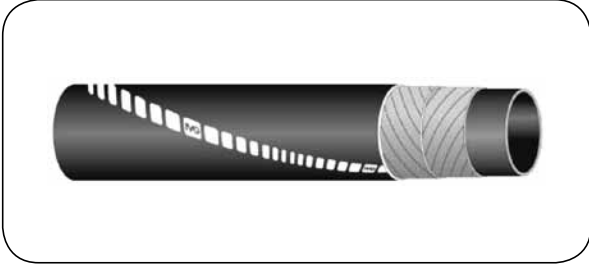
### TUBANO OIL

**Internal layer:** Moulded EPDM rubber  
**External layer:** Oil resistant synthetic rubber  
**Working temp.:** From -40°C up to +125°C

Hose used for cooling and heating installations, water, some acids and diluted alkalis. Resistant to high temperatures and ozone but with limited chemical resistance. Supplied in 1 m pieces to enable easy cutting and fitting into an installation.

code	I.D. [mm]	extensibility [mm]	working pressure [bar]	bending radius [mm]	standard length [m]
EC-102111	20	20 ÷ 25	1.5	70	1
EC-102112	25	25 ÷ 31	1.5	85	1
EC-102113	31.5	31.5 ÷ 36	1.5	105	1
EC-102114	33.5	33.5 ÷ 38	1.5	110	1
EC-102115	37	37 ÷ 44	1.5	115	1
EC-102116	44	44 ÷ 48	1.5	120	1
EC-102117	48	48 ÷ 55	1.5	125	1
EC-102118	55	55 ÷ 65	1.5	130	1
EC-102119	65	65 ÷ 75	1.5	140	1

## INDUSTRIAL HOSES - air and water



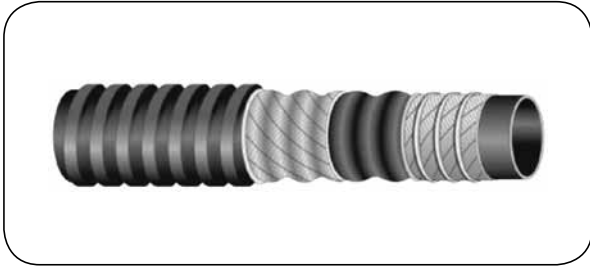
### DERBY RADIATOR

**Internal layer:** Black EPDM rubber  
**Reinforcement:** Synthetic braid  
**External layer:** Black EPDM rubber  
**Working temp.:** From -40°C up to +120°C

Hose designed for heating and cooling systems, automotive pumps and industrial machines.  
 Resistant to cooling fluids and manufactured according to DIN 73411 (1979) standards.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-RADIATOR-008	8	15	4	12	0.14	120
IV-RADIATOR-010	10	18	4	12	0.19	120
IV-RADIATOR-012	12	19	4	12	0.19	120
IV-RADIATOR-013	13	20	4	12	0.21	120
IV-RADIATOR-015	15	22	4	12	0.23	120
IV-RADIATOR-016	16	23	4	12	0.22	120
IV-RADIATOR-018	18	25	4	12	0.27	120
IV-RADIATOR-019	19	28	4	12	0.37	120
IV-RADIATOR-020	20	27	4	12	0.29	120
IV-RADIATOR-022	22	29	4	12	0.32	120
IV-RADIATOR-025	25	32	4	12	0.36	120
IV-RADIATOR-028	28	36	4	12	0.43	120
IV-RADIATOR-030	30	38	4	12	0.46	120
IV-RADIATOR-032	32	40	4	12	0.49	120
IV-RADIATOR-035	35	43	4	12	0.53	120
IV-RADIATOR-038	38	48	4	12	0.77	120
IV-RADIATOR-040	40	50	4	12	0.80	120
IV-RADIATOR-042	42	52	3	9	0.84	120
IV-RADIATOR-045	45	55	3	9	0.89	120
IV-RADIATOR-048	48	58	3	9	0.94	120
IV-RADIATOR-050	50	60	3	9	0.98	120
IV-RADIATOR-055	55	65	3	9	1.07	120
IV-RADIATOR-060	60	70	3	9	1.16	120
IV-RADIATOR-065	65	75	3	9	1.25	120
IV-RADIATOR-070	70	80	3	9	1.33	120
IV-RADIATOR-075	75	85	3	9	1.43	120
IV-RADIATOR-080	80	91.5	3	9	1.71	120
IV-RADIATOR-100	100	112.5	2	6	2.34	120
IV-RADIATOR-110	110	122	2	6	2.41	120
IV-RADIATOR-114	114	126	2	6	2.50	120

## INDUSTRIAL HOSES - air and water



### RADIATOR / LCL

**Internal layer:** Black CR rubber  
**Reinforcement:** Synthetic braid, steel wire helix  
**External layer:** Black CR rubber  
**Working temp.:** From -40°C up to +100°C

Suction-delivery square corrugated hose designed for hot water and anti-freeze liquids in cooling automotive systems and industrial vehicle engines. Internal layer resistant to anti-freeze liquids and external layer resistant to oil, heat and ageing. Available in lengths (1 - 2 meter) with soft ends on request.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
IV-RADIATOR-LCL-16	16	26	4	12	60	0.42	60
IV-RADIATOR-LCL-18	18	26	4	12	65	0.46	60
IV-RADIATOR-LCL-20	20	28	4	12	70	0.50	60
IV-RADIATOR-LCL-22	22	32	4	12	80	0.51	60
IV-RADIATOR-LCL-25	25	35	4	12	85	0.57	60
IV-RADIATOR-LCL-28	28	36	4	12	95	0.59	60
IV-RADIATOR-LCL-30	30	38	4	12	100	0.63	60
IV-RADIATOR-LCL-32	32	42	4	12	105	0.70	60
IV-RADIATOR-LCL-35	35	45	4	12	115	0.76	60
IV-RADIATOR-LCL-38	38	48	4	12	130	0.82	60
IV-RADIATOR-LCL-40	40	50	4	12	135	0.85	60
IV-RADIATOR-LCL-42	42	52	4	12	140	0.89	60
IV-RADIATOR-LCL-45	45	55	4	12	150	0.95	60
IV-RADIATOR-LCL-50	50	60	4	12	165	1.04	60
IV-RADIATOR-LCL-51	51	61	4	12	165	1.06	60
IV-RADIATOR-LCL-55	55	65	4	12	180	1.13	60
IV-RADIATOR-LCL-60	60	72	4	12	200	1.30	60
IV-RADIATOR-LCL-70	70	82	3	9	230	1.50	60
IV-RADIATOR-LCL-76	76	89	3	9	250	2.10	60
IV-RADIATOR-LCL-90	90	102	3	9	300	2.45	60



### CONDITIONER HUMIDIFIER®

**Internal layer:** White butyl rubber  
**Reinforcement:** Synthetic braid  
**External layer:** White butyl rubber  
**Working temp.:** From -30°C up to +110°C

Softwall hose designed for hot water, low temperature steam, water condensate. Widely used in humidifiers as well as in air-conditioning installations.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-CONDITIONER-22	22	32	1	40	0.49	120
IV-CONDITIONER-30	30	40	1	40	0.64	120

## INDUSTRIAL HOSES - air and water

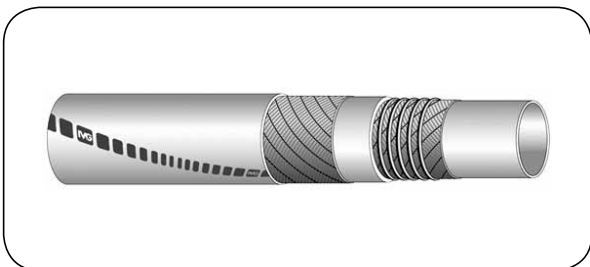


### BOAT ETNA

**Internal layer:** Black synthetic rubber  
**Reinforcement:** Synthetic braid, steel wire helix  
**External layer:** Black, corrugated synthetic rubber  
**Working temp.:** From -30°C up to +100°C

Lightweight and very flexible suction-delivery hose designed to convey wet exhaust fumes in pleasure boats (exhaust of fumes and cooling water). External layer resistant to fire and weather conditions. According to Lloyds 99/00169 (E2) standards.

code	I.D. [mm]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
IV-ETNA-032	32	5	130	0.65	60
IV-ETNA-038	38	5	150	0.75	60
IV-ETNA-040	40	5	160	0.78	60
IV-ETNA-045	45	5	170	0.87	60
IV-ETNA-051	51	5	180	1.07	60
IV-ETNA-058	58	5	190	1.20	60
IV-ETNA-063	63.5	5	200	1.30	60
IV-ETNA-076	76	5	250	1.46	60
IV-ETNA-090	90	5	330	1.73	60
IV-ETNA-102	102	5	410	2.06	60
IV-ETNA-127	127	5	560	2.58	60
IV-ETNA-152	152	5	680	3.18	60
IV-ETNA-203	203	5	995	5.52	60



### SANITARY / S

**Internal layer:** White synthetic rubber  
**Reinforcement:** Synthetic braid, steel wire helix  
**External layer:** White synthetic rubber  
**Working temp.:** From -30°C up to +100°C

Hardwall, suction-delivery hose designed to transfer water, for sanitary installations on boats, motor boats, yachts, etc. Odour-free and odour impermeable (5-year guarantee). External layer resistant to marine and weather conditions. According to EN ISO 8099 standards.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
IV-SANITARY-S-016	16	24	3	9	50	0.38	120
IV-SANITARY-S-019	19	27	3	9	60	0.43	120
IV-SANITARY-S-025	25	33	3	9	75	0.54	120
IV-SANITARY-S-038	38	46.5	3	9	150	0.87	120

## INDUSTRIAL HOSES - air and water

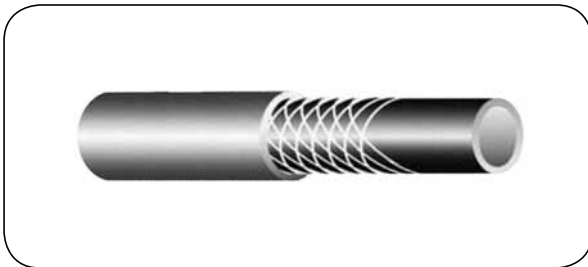


### STONEHOSE

**Internal layer:** Black PVC/NBR compound  
**Reinforcement:** Double polyester braid  
**External layer:** Black or yellow PVC/PU compound  
**Working temp.:** From -10°C up to +60°C

Lightweight, very flexible hose designed for compressed air. Highly resistant to abrasion and mineral oil. Yellow external layer ensures very good hose visibility. It is used for pneumatic hammers and air-drills.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting press. 20°C [bar]	bursting press. 60°C [bar]	weight [kg/m]	standard length [m]
ME-STONE-19	19	27	20	75	55	0.39	60
ME-STONE-25	25	35	20	75	55	0.60	60



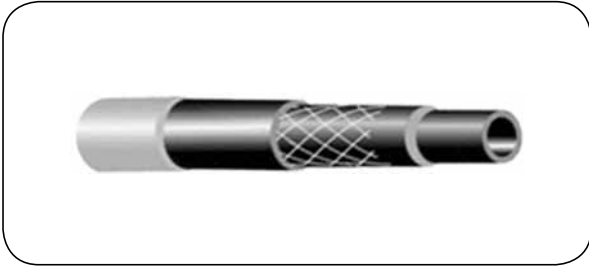
### SUPER NOBELAIR SOFT

**Internal layer:** Black PVC  
**Reinforcement:** Polyester braid  
**External layer:** Blue PVC  
**Working temp.:** From -20°C up to +60°C

Highly flexible hose designed for compressed air. Due to such qualities as: lightweight, flexibility in low temperatures and resistance to elongation it is used for pneumatic tools, compressors, hose reels, etc.

code	I.D. [mm]	O.D. [mm]	working press. 20°C [bar]	bursting press. 20°C [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
TR-SUPNOB-S-06	6.3	11	15	60	22.5	0.09	50
TR-SUPNOB-S-08	8	13	15	60	28	0.10	50
TR-SUPNOB-S-09	9	14.5	15	60	31.5	0.13	50
TR-SUPNOB-S-10	10	15.5	15	60	35	0.14	50
TR-SUPNOB-S-12	12.7	19	15	60	44.5	0.20	50
TR-SUPNOB-S-16	16	23	15	60	56	0.27	50
TR-SUPNOB-S-19	19	26.5	15	60	66.5	0.34	50
TR-SUPNOB-S-25	25	33.5	15	60	87.5	0.50	50

## INDUSTRIAL HOSES - air and water



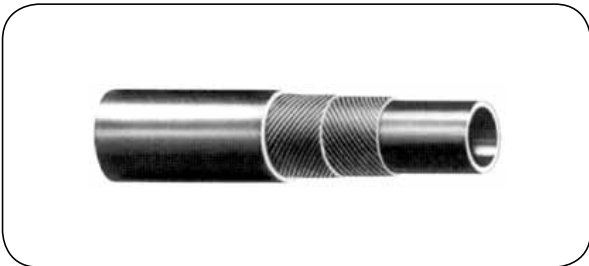
### NOBELAIR AS / R

**Internal layer:** Black, antistatic PVC  
**Reinforcement:** Polyester braid  
**External layer:** Dull blue PVC  
**Working temp.:** From -20°C up to +60°C

Highly flexible hose designed for compressed air. Due to such qualities as: lightweight, flexibility in low temperatures and resistance to elongation it is used for pneumatic tools, compressors, hose reels, etc. Manufactured according to EN 14593, EN 14594 standards.

Antistatic ( $R < 10^6 \Omega$ ), resistant to high ambient temperature and adjusted to decontamination process (essential when used in breathing apparatus).

code	I.D. [mm]	O.D. [mm]	working press. 20°C [bar]	bursting press. 20°C [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
TR-NOB-ASR-06	6	12	15	60	20	0.11	50
TR-NOB-ASR-08	8	14	15	60	25	0.13	50
TR-NOB-ASR-10	10	16	15	60	32.5	0.15	50
TR-NOB-ASR-13	12.7	19	15	60	40	0.19	50
TR-NOB-ASR-19	19	28	15	60	60	0.40	50



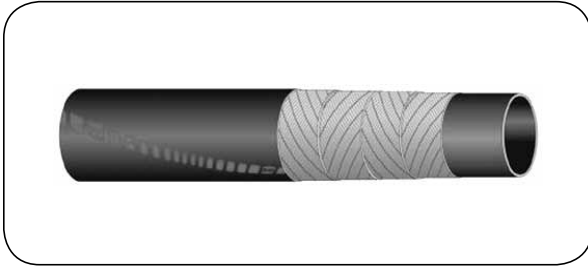
### AIR 20

**Internal layer:** Black EPDM rubber  
**Reinforcement:** Synthetic braid  
**External layer:** Black EPDM rubber  
**Working temp.:** From -20°C up to +70°C

Flexible hose designed for air (oiled air as well), non-aggressive liquids or other industrial applications. Resistant to abrasion, ageing, ozone and weather conditions.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
IV-AIR20-06	6	14	20	60	60	0.15	100
IV-AIR20-07	7	16	20	60	60	0.20	100
IV-AIR20-08	8	17	20	60	65	0.21	100
IV-AIR20-10	10	19	20	60	80	0.25	100
IV-AIR20-13	13	23	20	60	105	0.35	60
IV-AIR20-16	16	26	20	60	130	0.40	60
IV-AIR20-19	19	30	20	60	150	0.52	60

## INDUSTRIAL HOSES - air and water

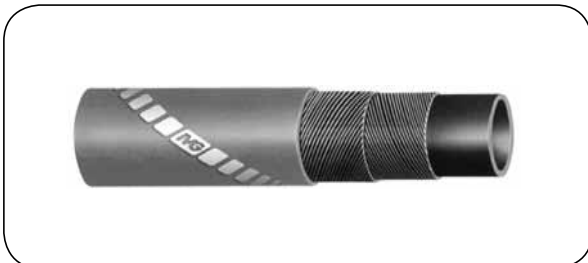


### MONTANA 20®

**Internal layer:** Black SBR rubber  
**Reinforcement:** Synthetic braid  
**External layer:** Black EPDM rubber  
**Working temp.:** From -30 °C up to +70°C

Robust, delivery hose for air and water used for heavy-duty applications. Internal layer resistant to oil mist. It is resistant to abrasion and weather conditions.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-MONTANA20-010	10	19	20	60	0.29	120
IV-MONTANA20-013	13	23	20	60	0.38	120
IV-MONTANA20-016	16	26	20	60	0.42	120
IV-MONTANA20-019	19	30	20	60	0.59	120
IV-MONTANA20-025	25	35	20	60	0.61	120
IV-MONTANA20-032	32	44	20	60	0.95	120
IV-MONTANA20-038	38	51	20	60	1.18	120
IV-MONTANA20-040	40	54	20	60	1.28	120
IV-MONTANA20-051	51	69	20	60	2.26	120
IV-MONTANA20-063	63.5	81.5	20	60	2.69	120
IV-MONTANA20-076	76	94.5	20	60	3.17	120
IV-MONTANA20-090	90	110	20	60	3.99	120
IV-MONTANA20-102	102	122	20	60	4.42	120



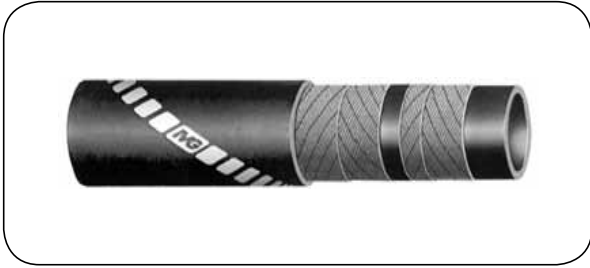
### ALASKA®

**Internal layer:** Black SBR rubber  
**Reinforcement:** Double steel braid  
**External layer:** Yellow EPDM rubber  
**Working temp.:** From -30°C up to +70°C

Robust and resistant to the most severe working conditions in mining, quarries, construction industry, etc. Designed for air applications.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-ALASKA-013	13	25.5	70	210	0.57	120
IV-ALASKA-019	19	31.5	50	150	0.75	120
IV-ALASKA-025	25	37.5	45	135	0.93	120
IV-ALASKA-032	32	48	45	135	1.57	120
IV-ALASKA-038	38	55	45	135	1.93	120
IV-ALASKA-051	51	68	40	120	2.38	120
IV-ALASKA-063	63.5	80	35	105	2.84	120
IV-ALASKA-076	76	96.5	35	105	4.60	120
IV-ALASKA-102	102	127	30	90	7.17	60

## INDUSTRIAL HOSES - air and water



### SAHARA BD®

**Internal layer:** White EPR rubber  
**Reinforcement:** Synthetic braid  
**External layer:** Blue EPDM rubber  
**Working temp.:** From -40°C up to +220°C  
 (with peaks up to +240°C)

Flexible, kink resistant hose designed for hot air transfer in industrial installations as well as in cement, feed and tank trucks, etc. External layer resistant to abrasion, ozone and weather conditions.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	standard length [m]
IV-SAHARA-BD-025	25	41	10	30	120
IV-SAHARA-BD-032	32	48	10	30	120
IV-SAHARA-BD-038	38	54	10	30	120
IV-SAHARA-BD-040	40	56	10	30	120
IV-SAHARA-BD-051	51	69	10	30	120
IV-SAHARA-BD-060	60	78	10	30	120
IV-SAHARA-BD-063	63.5	82	10	30	120
IV-SAHARA-BD-076	76	94	10	30	120
IV-SAHARA-BD-090	90	108	10	30	120
IV-SAHARA-BD-102	102	125	10	30	120



### SAHARA / LL BD®

**Internal layer:** White EPR rubber  
**Reinforcement:** Synthetic braid, steel wire helix  
**External layer:** Blue EPDM rubber  
**Working temp.:** From -40°C up to +220°C  
 (with peaks up to +240°C)

Flexible, kink resistant hose designed for hot air transfer in industrial installations as well as in cement, feed and tank trucks, etc. External layer resistant to abrasion, ozone and weather conditions.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	standard length [m]
IV-SAHARA-LL-BD-025	25	37	10	30	120
IV-SAHARA-LL-BD-032	32	44	10	30	120
IV-SAHARA-LL-BD-038	38	50	10	30	120
IV-SAHARA-LL-BD-040	40	53	10	30	120
IV-SAHARA-LL-BD-051	51	64	10	30	120
IV-SAHARA-LL-BD-060	60	74	10	30	120
IV-SAHARA-LL-BD-063	63.5	77.5	10	30	120
IV-SAHARA-LL-BD-076	76	91	10	30	120
IV-SAHARA-LL-BD-090	90	105.5	10	30	120
IV-SAHARA-LL-BD-102	102	117.5	10	30	120



## INDUSTRIAL HOSES - air and water



### BREATHING HOSE

**Internal layer:** Black EPDM rubber  
**Reinforcement:** Aramid braid  
**External layer:** Black EPDM rubber  
**Working temp.:** From -40°C up to +120°C

Very flexible delivery hose designed to convey compressed air or fresh air for breathing. Widely used in breathing masks and compressed air supply lines. Electrical conductivity of external and internal layer at  $10^3 < R < 10^8 \Omega/m$  level. Extremely durable and reliable due to its high resistance to temperature and abrasion. Meets the requirements of EN14593/14594 standard.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
TR-5501735	7.2	14.2	10	80	100	0.17	80
TR-5501738	9.5	17.5	10	80	125	0.24	80



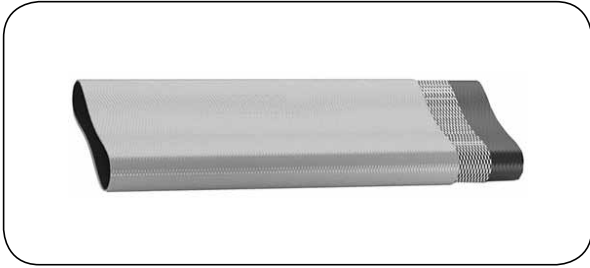
### HILCOFLEX SPEZIAL 90

**Material:** Yellow NBR/PVC compound totally embedded in polyester/polyamide braid during hose extrusion process  
**Working temp.:** From -20°C up to +100°C

Robust, delivery hose designed to transfer water or compressed air in irrigation systems, agriculture, mining, construction sites, etc. The colour (yellow) ensures perfect visibility. Excellent resistance to abrasion, ozone, weather conditions, oil, fuel and a wide range of chemicals. More flexible and lightweight compared to standard rubber hoses. Easy handling and storage due to layflat construction. Does not require cleaning nor drying. For pneumatic hammers and air-drills there is DN 20 or DN 25 option available, both 20 m long with increased DIN 8537/20 033 couplings, ensuring minimum pressure loss.

code	I.D. [mm]	wall thickness [mm]	working pressure [bar]		bursting pressure [bar]	weight [kg/m]	standard length [m]
			water	air			
GH-HFLEX-S90-020	20	2.3	30	22	90	0.19	100
GH-HFLEX-S90-026	26	2.5	30	22	90	0.23	100
GH-HFLEX-S90-038	38	3.3	30	22	90	0.40	100
GH-HFLEX-S90-052	52	3.3	30	22	90	0.60	100
HILCOFLEX SPEZIAL 90 assembly							
GH-HFLEX-S90-020-20	20	2.3	30	22	90	0.19	20
GH-HFLEX-S90-026-20	26	2.5	30	22	90	0.23	20

## INDUSTRIAL HOSES - air and water



### HIFLAT LD

**Internal layer:** Black PVC  
**Reinforcement:** Polyester braid  
**External layer:** Blue PVC  
**Working temp.:** From -10°C up to +50°C

Very lightweight, lay flat, delivery hose designed for water transfer. Widely used in agriculture, mining, shipbuilding, etc.

code	I.D. [mm]	working pressure 20°C [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
FT-HIFLAT-LD-025	25	6	18	0.18	50
FT-HIFLAT-LD-032	32	6	18	0.19	50
FT-HIFLAT-LD-035	35	6	18	0.21	50
FT-HIFLAT-LD-038	38	5	15	0.23	50
FT-HIFLAT-LD-040	40	5	15	0.24	50
FT-HIFLAT-LD-045	45	5	15	0.27	50
FT-HIFLAT-LD-051	51	4	12	0.28	50
FT-HIFLAT-LD-060	60	4	12	0.35	50
FT-HIFLAT-LD-063	63	4	12	0.37	50
FT-HIFLAT-LD-070	70	4	12	0.42	50
FT-HIFLAT-LD-076	76	4	12	0.46	50
FT-HIFLAT-LD-090	90	4	12	0.58	50
FT-HIFLAT-LD-102	102	4	12	0.61	50
FT-HIFLAT-LD-127	127	3	9	0.95	50
FT-HIFLAT-LD-153	153	2.5	7.5	1.20	50
FT-HIFLAT-LD-203	203	2	6	1.94	50



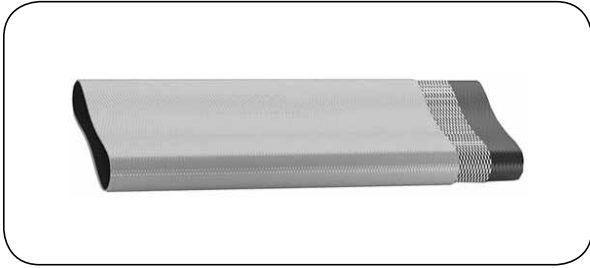
### FIRE CHICAGO®

**Internal layer:** Black EPDM rubber  
**Reinforcement:** Synthetic braid  
**External layer:** Black EPDM rubber  
**Working temp.:** From -40°C up to +70°C

Robust, flexible hose designed for water delivery. Suitable for hose reels. Intended for high pressure fire extinguishing equipment, on fire trucks. Internal layer is resistant to fire retardants and foam. External layer is resistant to abrasion and weather conditions. Options compliant with: EN 1947, ASTM, BS 3169 or one with luminescent external layer are available.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-CHICAGO-19	19	32	40	120	0.59	120
IV-CHICAGO-25	25	38	40	120	0.72	120
IV-CHICAGO-28	28	44	40	120	1.01	120
IV-CHICAGO-32	32	45	40	120	0.88	120
IV-CHICAGO-38	38	52	40	120	1.06	120

## INDUSTRIAL HOSES - air and water

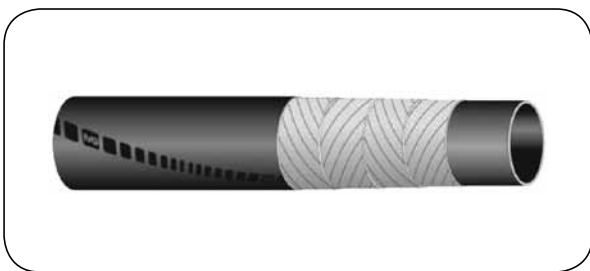


### HIFLAT HD

**Internal layer:** Black PVC  
**Reinforcement:** Polyester braid  
**External layer:** Blue PVC  
**Working temp.:** From -10°C up to +60°C

Very lightweight, lay flat, delivery hose designed for water transfer. Widely used in agriculture, mining, shipbuilding, etc.

code	I.D. [mm]	working pressure 20°C [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
FT-HIFLAT-HD-025	25	10	30	0.17	50
FT-HIFLAT-HD-032	32	9	27	0.21	50
FT-HIFLAT-HD-035	35	8	24	0.24	50
FT-HIFLAT-HD-038	38	8	24	0.25	50
FT-HIFLAT-HD-040	40	8	24	0.27	50
FT-HIFLAT-HD-045	45	8	24	0.29	50
FT-HIFLAT-HD-051	51	8	24	0.34	50
FT-HIFLAT-HD-060	60	8	24	0.43	50
FT-HIFLAT-HD-063	63	8	24	0.45	50
FT-HIFLAT-HD-070	70	7	21	0.49	50
FT-HIFLAT-HD-076	76	7	21	0.53	50
FT-HIFLAT-HD-080	80	7	21	0.56	50
FT-HIFLAT-HD-090	90	7	21	0.66	50
FT-HIFLAT-HD-102	102	7	21	0.75	50
FT-HIFLAT-HD-127	127	6	18	1.11	50
FT-HIFLAT-HD-153	153	4	12	1.42	50
FT-HIFLAT-HD-203	203	2.5	7.5	2.10	50



### ANKARA®

**Internal layer:** Black NR/SBR rubber  
**Reinforcement:** Synthetic braid  
**External layer:** Black SBR rubber  
**Working temp.:** From -40°C up to +70°C

Robust, flexible hose adjusted to be used on hose reels. It is used for high pressure fire extinguishing equipment. Electrically conductive internal layer is resistant to fire extinguishing powders and foams. External layer resistant to abrasion and weather conditions.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
IV-ANKARA-25	25	37	20	60	0.67	120
IV-ANKARA-32	32	46	20	60	0.90	120

## INDUSTRIAL HOSES - air and water



### JAMAICA L

**Internal layer:** Black PVC  
**Reinforcement:** Polyester braid  
**External layer:** Blue PVC  
**Working temp.:** From -10°C up to +60°C

Very lightweight, lay flat, delivery hose designed for water transfer. Widely used in agriculture, mining, shipbuilding, etc.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	standard length [m]
ME-JAMAICA-L-020	20	23	8.5	25.5	0.13	50/100
ME-JAMAICA-L-025	25	28	8.5	25.5	0.15	50/100
ME-JAMAICA-L-032	32	35	8.5	25.5	0.21	50/100
ME-JAMAICA-L-035	35	38	8.5	25.5	0.22	50/100
ME-JAMAICA-L-038	38	41	8.5	25.5	0.24	50/100
ME-JAMAICA-L-040	40	43	8.5	25.5	0.25	50/100
ME-JAMAICA-L-045	45	48	6.5	19.5	0.28	50/100
ME-JAMAICA-L-051	51	54	6.5	19.5	0.32	50/100
ME-JAMAICA-L-063	63	67.5	6.5	19.5	0.42	50/100
ME-JAMAICA-L-070	70	74	5.5	16.5	0.45	50/100
ME-JAMAICA-L-076	76	80	5.5	16.5	0.52	50/100
ME-JAMAICA-L-080	80	84	5.5	16.5	0.58	50/100
ME-JAMAICA-L-090	90	94	5.5	16.5	0.66	50/100
ME-JAMAICA-L-102	102	106	5.5	16.5	0.72	50/100
ME-JAMAICA-L-110	110	115	5.5	16.5	0.78	50/100
ME-JAMAICA-L-127	127	132	3	9	1.13	50/100
ME-JAMAICA-L-152	152	157	3	9	1.35	50/100
ME-JAMAICA-L-204	204	209	2.5	7	2.00	50



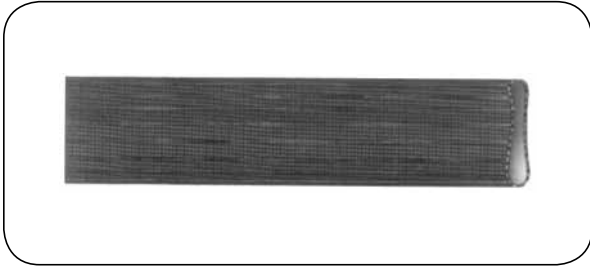
### SNOWBLAST

**Internal layer:** EPDM rubber  
**Reinforcement:** Polyester braid  
**External layer:** Special yellow coating resistant to abrasion  
**Working temp.:** From -40°C up to +100°C

Special high pressure hose designed for snow guns, resistant to abrasion, UV radiation, weather conditions and ozone. The colour (yellow) of the external layer ensures perfect visibility even on snow. Delivered as complete hose assemblies with CAMLOCK C and E couplings made of AISI 316, maximum working pressure 60 bar.

code	I.D. [mm]	wall thickness [mm]	working pressure [bar]	bursting pressure [bar]	weight [kg/m]	length [m]
GH-SNOWBLAST-52-10	52	4	60	150	0.7	10
GH-SNOWBLAST-52-20	52	4	60	150	0.7	20

# INDUSTRIAL HOSES - air and water

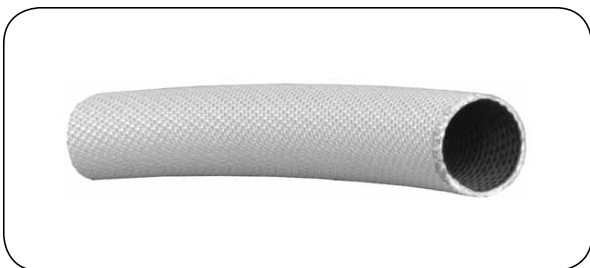


## HILCOFLEX

**Material:** Black NBR/PVC compound totally embedded in polyester/polyamide braid during hose extrusion process  
**Working temp.:** From -20°C up to +100°C

Robust, delivery hose designed to transfer water or compressed air in irrigation systems, agriculture, mining, construction sites, etc. Resistant to abrasion, ozone, weather conditions, oil, fuel and a wide range of chemicals. More flexible and lightweight compared to standard rubber hoses. Easy handling and storage since the hose is a layflat type. Does not require cleaning nor drying. Lengths up to 200 m available from 76 mm diameter.

code	I.D. [mm]	wall thickness [mm]	working pressure [bar]		bursting pressure [bar]	weight [kg/m]	standard length [m]
			water	air			
GH-HFLEX-020	20	2	25	18	75	0.16	100
GH-HFLEX-026	26	2	25	18	75	0.18	100
GH-HFLEX-032	32	2	20	15	60	0.23	100
GH-HFLEX-035	35	2	16	12	50	0.25	100
GH-HFLEX-038	38	2	16	12	50	0.28	100
GH-HFLEX-045	45	2.2	16	12	50	0.35	100
GH-HFLEX-052	52	2.2	16	12	50	0.40	100
GH-HFLEX-055	55	2.2	16	12	50	0.44	100
GH-HFLEX-060	60	2.2	16	12	50	0.47	100
GH-HFLEX-065	65	2.2	16	12	50	0.51	100
GH-HFLEX-070	70	2.3	16	12	50	0.60	100
GH-HFLEX-076	76	2.5	16	12	50	0.68	100
GH-HFLEX-080	80	2.5	16	12	50	0.75	100
GH-HFLEX-090	90	2.8	16	12	50	0.90	100
GH-HFLEX-102	102	2.8	16	12	50	1.00	100
GH-HFLEX-110	110	3	16	12	50	1.10	100
GH-HFLEX-120	120	3	15	11	45	1.30	100
GH-HFLEX-127	127	3	15	11	45	1.40	100
GH-HFLEX-152	152	3	14	10	42	1.70	100
GH-HFLEX-203	203	3.3	14	10	42	2.40	100



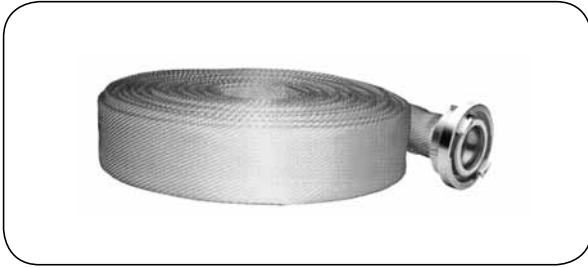
## INDUSTRIAL / SR

**Internal layer:** Smooth synthetic rubber  
**Reinforcement:** Polyester braid with polyester helix wire  
**Working temp.:** From -40°C up to +70°C

Very lightweight, flexible hose designed for fire protection in buildings, transfer of air, dust or light solid particles. Manufactured according to EN 694 specifications.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	standard length [m]
BZ-INDUSTRIAL-SR-19	19	23	12	42	60
BZ-INDUSTRIAL-SR-25	25	29	12	42	60
BZ-INDUSTRIAL-SR-33	33	37	7	24.5	30

## INDUSTRIAL HOSES - air and water



### FIRE UNIVERSAL

**Internal layer:** PVC inner lining  
**Reinforcement:** Polyester braid  
**Working temp.:** From -30°C up to +50°C

Very lightweight, flexible hose designed for fire protection in buildings, fire hydrants and other equipment used by firefighters. Widely used in all branches of civil engineering. Manufactured according to EN 14540 specifications. Holds approval certificates issued Polish Scientific and Research Centre for Fire Protection (for complete hose assemblies).

code	I.D. [mm]	working pressure [bar]	bursting pressure [bar]	lug distance [mm]	standard length [m]
hose assembly with STORZ couplings					
BZ-FIRE-U-025-15	25	15	45	D-31	15
BZ-FIRE-U-025-20	25	15	45	D-31	20
BZ-FIRE-U-052-15	52	15	45	C-66	15
BZ-FIRE-U-052-20	52	15	45	C-66	20
BZ-FIRE-U-075-20	75	15	45	B-89	20
BZ-FIRE-U-110-20	110	12	36	A-133	20
hose					
BZ-FIRE-U-025	25	15	45	-	40
BZ-FIRE-U-052	52	15	45	-	40
BZ-FIRE-U-075	75	15	45	-	40
BZ-FIRE-U-110	110	12	36	-	10



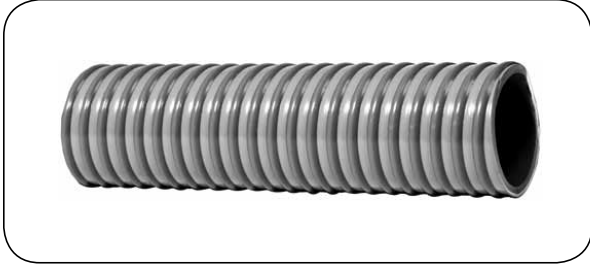
### FIRE UNIVERSAL / PU

**Internal layer:** Smooth polyurethane  
**Reinforcement:** Polyester braid  
**External layer:** Red polyurethane coating  
**Working temp.:** From -40°C up to +70°C

Very lightweight, flexible hose designed for fire protection in buildings, fire pumps, water pumps and other equipment used by firefighters. Widely used in all branches of civil engineering. Polyurethane external layer is dirt repellent and increases resistance to wear and abrasion. Holds approval certificates issued by Polish Scientific and Research Centre for Fire Protection (for complete hose assemblies).

code	I.D. [mm]	working pressure [bar]	bursting pressure [bar]	lug distance [mm]	standard length [m]
hose assembly with STORZ couplings					
BZ-FIRE-U-PU-052-20	52	15	45	C-66	20
BZ-FIRE-U-PU-075-20	75	15	45	B-89	20
BZ-FIRE-U-PU-110-20	110	12	36	A-133	20
hose					
BZ-FIRE-U-PU-052	52	15	45	-	40
BZ-FIRE-U-PU-075	75	15	45	-	40
BZ-FIRE-U-PU-110	110	12	36	-	40

## INDUSTRIAL HOSES - air and water

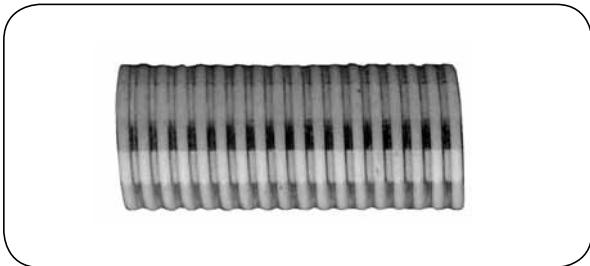


### MULTIFLEX

**Material:** PVC  
**Reinforcement:** Rigid PVC wire helix  
**Working temp.:** From -20°C up to +50°C

Flexible hose intended for water and sewage. Used in industrial applications. Due to high resistance to low temperature it is widely used to empty septic tanks.

code	I.D. [mm]	working pressure 20°C [bar]	vacuum [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
FT-MULTIFLEX-025	25	8	0.9	90	0.48	50
FT-MULTIFLEX-030	30	7	0.9	110	0.55	50
FT-MULTIFLEX-032	32	7	0.9	120	0.57	50
FT-MULTIFLEX-035	35	7	0.9	130	0.62	50
FT-MULTIFLEX-038	38	6	0.9	140	0.67	50
FT-MULTIFLEX-040	40	6	0.9	150	0.76	50
FT-MULTIFLEX-051	51	5	0.9	190	1.05	50
FT-MULTIFLEX-060	60	5	0.9	220	1.19	50
FT-MULTIFLEX-063	63	5	0.9	230	1.32	50
FT-MULTIFLEX-070	70	4	0.9	260	1.43	50
FT-MULTIFLEX-076	76	4	0.9	280	1.62	50
FT-MULTIFLEX-080	80	4	0.9	290	1.85	30
FT-MULTIFLEX-090	90	4	0.9	330	2.14	30
FT-MULTIFLEX-102	102	4	0.9	370	2.57	30
FT-MULTIFLEX-110	110	3	0.9	440	3.45	30
FT-MULTIFLEX-127	127	3	0.9	460	3.71	20
FT-MULTIFLEX-152	152	3	0.9	550	4.99	20



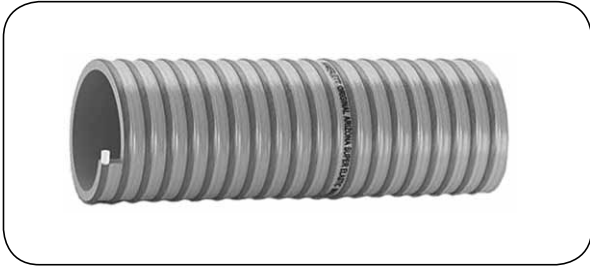
### GREEN

**Material:** PVC  
**Reinforcement:** Rigid PVC wire helix  
**Working temp.:** From -25°C up to +55°C

Flexible hose designed for water and sewage. Used in industrial applications. Due to high resistance to low temperature it is widely used to empty septic tanks. Version with antistatic wire is available on request.

code	I.D. [mm]	O.D. [mm]	working press. 20°C [bar]	vacuum [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
ME-GREEN-051	51	62	4.5	0.9	200	0.96	30
ME-GREEN-063	63.5	75.5	4	0.9	250	1.30	30
ME-GREEN-076	76	89	3.5	0.9	300	1.70	30
ME-GREEN-080	80	93	3.5	0.9	320	1.75	30
ME-GREEN-102	102	116	3	0.9	400	2.60	30
ME-GREEN-110	110	125	2.7	0.9	440	3.00	30
ME-GREEN-127	127	144	2.3	0.9	500	3.60	20/30
ME-GREEN-152	152	170	1.8	0.9	600	4.70	20/30

## INDUSTRIAL HOSES - air and water



### ARIZONA SUPERELASTIC

**Material:** PVC  
**Reinforcement:** Rigid PVC helix wire  
**Working temp.:** From -25°C up to +55°C

Flexible hose designed for water and sewage. Widely used to empty septic tanks, in irrigation systems, to transfer water in industrial systems, etc. Remains very flexible at low temperature. Available as an AS antistatic type with antistatic wire or ARIZONA EXTREME ELASTIC that remains flexible even at very low temperature (up to -40°C).

code	I.D. [mm]	O.D. [mm]	working press. 20°C [bar]	vacuum [bar]	bending radius [mm]	weight [kg/m]	standard length [m]
standard version							
ME-ARIZONA-SE-025	25	33.8	7	0.9	100	0.50	50
ME-ARIZONA-SE-032	32	40.8	6	0.9	130	0.60	50
ME-ARIZONA-SE-038	38	47	6	0.9	150	0.70	50
ME-ARIZONA-SE-045	45	55	5.5	0.9	180	0.90	50
ME-ARIZONA-SE-050	50	61	5	0.9	200	1.05	50
ME-ARIZONA-SE-060	60	71.2	4.5	0.9	240	1.25	50
ME-ARIZONA-SE-063	63	75.5	4.5	0.9	250	1.39	50
ME-ARIZONA-SE-075	75	88	4	0.9	300	1.70	30
ME-ARIZONA-SE-076	76	88.8	4	0.9	300	1.70	30
ME-ARIZONA-SE-080	80	92.6	3.5	0.9	320	1.85	30
ME-ARIZONA-SE-090	90	103.7	3.5	0.9	360	2.25	30
ME-ARIZONA-SE-100	100	114.8	3	0.9	400	2.70	30
ME-ARIZONA-SE-102	102	116.4	3	0.9	400	2.70	30
ME-ARIZONA-SE-110	110	125.5	3	0.9	440	3.10	20
ME-ARIZONA-SE-120	120	136	2.5	0.9	480	3.60	20
ME-ARIZONA-SE-125	125	142.1	2.5	0.9	500	3.90	20
ME-ARIZONA-SE-127	127	143.6	2.5	0.9	510	3.90	20
ME-ARIZONA-SE-130	130	147	2.5	0.9	520	4.10	20
ME-ARIZONA-SE-133	133	150	2.5	0.9	550	4.20	20
ME-ARIZONA-SE-150	150	168	2	0.9	600	5.00	20
ME-ARIZONA-SE-152	152	170.4	2	0.9	610	5.00	20
ME-ARIZONA-SE-160	160	178.8	2	0.9	640	5.60	20
ME-ARIZONA-SE-200	200	226	1.5	0.9	800	10.00	-
antistatic version							
ME-ARIZONA-S-AS-076	76	88.8	4	0.9	300	1.71	30
ME-ARIZONA-S-AS-102	102	116.4	3	0.9	400	2.72	30
ME-ARIZONA-S-AS-127	127	143.6	2.5	0.9	510	3.92	20
ME-ARIZONA-S-AS-152	152	170.4	2	0.9	610	5.03	20



## INDUSTRIAL HOSES - air and water



### GENESIS ToiVac

**Material:** Polyethylene  
**Reinforcement:** Polyethylene profile  
**Working temp.:** From -40°C up to +60°C

Flexible hose designed for water and sewage. Due to high resistance to low temperature it is widely used as an emptying hose for septic tanks, portable restrooms, toilets. Delivered in lengths listed below with welded cuffs as a standard.

code	I.D. [mm]	vacuum [bar]	bending radius [mm]	weight [kg/pcs]	length [m]
SC-GENESIS-TV-051-10	51	0.95	85	11.00	10
SC-GENESIS-TV-051-15				16.50	15
SC-GENESIS-TV-051-20				22.00	20
SC-GENESIS-TV-063-10	63	0.95	105	12.50	10
SC-GENESIS-TV-063-15				18.80	15
SC-GENESIS-TV-063-20				25.00	20
SC-GENESIS-TV-076-10	76	0.9	125	15.00	10
SC-GENESIS-TV-076-15				22.50	15
SC-GENESIS-TV-076-20				30.00	20
SC-GENESIS-TV-102-10	102	0.85	165	20.00	10
SC-GENESIS-TV-102-15				30.00	15
SC-GENESIS-TV-102-20				40.00	20



code	description
SC-GENESIS-TV-51K	cuff for GENESIS 51 mm
SC-GENESIS-TV-63K	cuff for GENESIS 63 mm
SC-GENESIS-TV-76K	cuff for GENESIS 76 mm



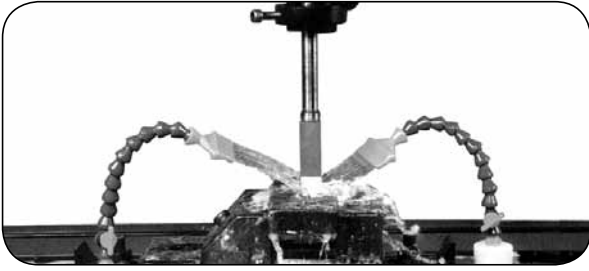
### HI-VAC

**Internal layer:** Polyethylene  
**Reinforcement:** Rigid helix wire  
**External layer:** Polyethylene  
**Working temp.:** From -45°C up to +65°C

Flexible hose designed for water and sewage. Due to high resistance to low temperature it is widely used as an emptying hose for septic tanks, portable restrooms, toilets. Delivered in lengths listed below with welded cuffs as a standard.

code	I.D. [mm]	O.D. [mm]	bursting pressure [bar]	vacuum [bar]	bending radius [mm]	weight [kg/pcs]	length [m]
PR-HIVAC-51-03	51	70	4	0.98	125	3.80	3
PR-HIVAC-51-09						11.60	9.15
PR-HIVAC-51-12						15.50	12.2
PR-HIVAC-51-15						19.30	15.2
PR-HIVAC-51-18						23.30	18.3

## INDUSTRIAL HOSES - air and water

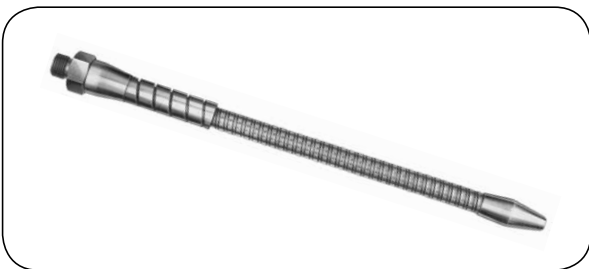


### JETON

**Material:** Acetal (POM)  
**Working temp.:** Up to +65°C

The coolant hose, designed for low pressure transfer of air, water, oil and other coolants used during metalworking process. Made of acetal that is resistant to corrosion, solvent, oil and lubricant, ensures that hose assemblies are elastic and rigid. Due to the special construction and the way of joining elements it is really easy to direct the jet of coolant, adjust length, change the arrangement by adding or detaching particular elements (connect and disconnect using special pliers or manually). Highly resistant to abrasion and vibration. The hose holds its shape in 100% and does not cause any damage to cutting blades. Available in 4 sizes (flow diameter 1/4", 3/8", 1/2" and 3/4").

code	I.D. [inch]	length [mm]	number of segments [pcs]	thread [NPT]	press [bar]	flow max. [l/min.]
JT-62720	1/4	330	20	1/4 male	2 ÷ 3	900
JT-62721	1/4	330	20	1/4 female	2 ÷ 3	900
JT-63720	3/8	360	16	3/8 male	2 ÷ 3	1500
JT-63721	3/8	360	16	3/8 female	2 ÷ 3	1500
JT-64720	1/2	330	12	1/2 male	1.4 ÷ 2	1700
JT-64721	1/2	330	12	1/2 female	1.4 ÷ 2	1700



### HYDRAFLEX FR 201

**Internal layer:** Black PVC  
**Reinforcement:** Steel supporting coil (additional nickel-plated steel helix protection up to DN 10)  
**Working press.:** 4 bar

The hose designed for low pressure transfer of air, water, oil and other coolants used during metalworking process. Due to the special construction, the hose once bent remains in that position. It allows to direct the jet of coolant precisely in the desired direction. Delivered as complete hose assemblies with BSP male thread and an outlet nozzle. An exemplary code of DN 6 hose assembly, 500 mm long: WR-FR201-06/500.

code	DN [mm]	thread [inch]	spanner size [mm]	bending radius [mm]	length [mm]						
WM-FR201-04-...	4	1/8	15	64	200	250	320	400	-	-	-
WM-FR201-06-...	6	1/4	19	72	200	250	320	400	500	630	-
WM-FR201-08-...	8	3/8	24	88	-	250	320	400	500	630	-
WM-FR201-10-...	10	1/2	27	110	-	-	320	400	500	630	800
WM-FR201-16-...	16	3/4	36	110	-	-	-	-	500	630	-