

## General purpose hoses - general information

General purpose hoses are designed for versatile use: for air, water, slightly aggressive chemicals, oils and fuels. Hoses that have hygienic attestations are also suitable for food products. Versatility of hoses does not mean that they can be used "for everything". Application must correspond to the information given in the characteristics of the hose. Hoses are made of materials such as PVC, polyurethane and rubber. Pressure resistance is ensured due to appropriate reinforcement in form of braided, plastic or steel helix. In case of hoses made of thermoplastics (PVC and PU), the decrease in the operational pressure with temperature must be considered. Ferrules of the general purpose hoses (see section INDUSTRIAL FITTINGS) must be mounted with worm drive clamps bands and hose clamps. They can also be pressed by a machine, by means of ferrules.

*You can find hoses for these applications in other sections of the INDUSTRIAL HOSES section.*

### Universal PVC hoses



#### CRISTALLO EXTRA

**PVC hose without reinforcement for food substances and all-purpose applications**

**Hose material:** transparent PVC  
**Working temperature:** from -20°C to +60°C  
(working pressure depends on the temperature)

All-purpose, highly flexible, non-reinforced hose designed for non-pressurized (or very low pressure) transfer of air, water and liquids in general industrial applications, slightly aggressive chemicals (e.g. dilute acids and bases) and as a protective cover for pipes, cables, hoses, etc.

It can be used (at temperatures up to 40°C) for food substances such as juices, beverages, beer, wine, alcohols up to 50%, milk and its products. It is not recommended for oils and oily food substances.



CRISTALLO EXTRA hose complies with the EU requirements 1935/2004/EC, 10/2011/EU (simulants A, B, C and D1), 2023/2006/EC (GMP). It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index	internal diameter (d) [mm]	external diameter (D) [mm]	wall thickness (t) [mm]	weight [kg/m]	length of a roll [m]
FT-CRISTALLO-EX-03X05	3	5	1	0.015	100
FT-CRISTALLO-EX-04X06	4	6	1	0.019	100
FT-CRISTALLO-EX-05X07	5	7	1	0.023	100
FT-CRISTALLO-EX-06X08	6	8	1	0.027	100
FT-CRISTALLO-EX-07X10	7	10	1.5	0.049	100
FT-CRISTALLO-EX-08X12	8	12	2	0.077	100
FT-CRISTALLO-EX-09X13	9	13	2	0.084	100
FT-CRISTALLO-EX-10X13	10	13	1.5	0.066	50
FT-CRISTALLO-EX-12X16	12	16	2	0.107	50
FT-CRISTALLO-EX-13X17	13	17	2	0.112	50
FT-CRISTALLO-EX-14X18	14	18	2	0.123	50
FT-CRISTALLO-EX-15X19	15	19	2	0.130	50
FT-CRISTALLO-EX-16X20	16	20	2	0.138	50
FT-CRISTALLO-EX-18X23	18	23	2.5	0.196	50
FT-CRISTALLO-EX-19X24	19	24	2.5	0.206	50
FT-CRISTALLO-EX-20X25	20	25	2.5	0.212	50
FT-CRISTALLO-EX-25X31	25	31	3	0.318	50
FT-CRISTALLO-EX-30X38	30	38	4	0.514	25

typical PVC hose , 20°C		
d [mm]	D [mm]	working pressure* [bar]
3	5	2.82
4	6	2.31
5	7	1.95
6	8	1.68
7	10	2.05
8	12	2.31
9	13	2.11
10	13	1.54
12	16	1.68
13	17	1.57
14	18	1.48
15	19	1.39
16	20	1.32
18	23	1.44
19	24	1.38
20	25	1.32
25	31	1.27
30	38	1.39

Note: indexes highlighted in color - the most common

\* - Indicative value of the recommended working pressure at the 5:1 safety factor.

For hoses without reinforcement, the most frequently manufacturers do not specify the working pressure or the bursting pressure due to the less clear cut nature of hose bursting, preceded by permanent deformation of the hose. The values were calculated on the basis of the Lamé's formula: working pressure =  $(S/n) \times (D^2 - d^2) / (D^2 + d^2)$ , where S = 3 MPa (material stress at permanent deformation) and n=5 (safety factor). These are indicative values for typical PVC plasticized hose. Use of a hose for a specific working pressure should be preceded by a test under working conditions.

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

## Universal PVC hoses



### CP

#### General purpose PVC hose without reinforcement

**Hose material:** transparent PVC  
**Working temperature:** from -20°C to +55°C (temporarily +65°C) (working pressure depends on the temperature, cold bending temperature up to -45°C)

Universal, highly flexible, non-reinforced hose manufactured in the UK. Designed for non-pressurized (or very low pressure) transfer of air, water and liquids in general industrial applications, slightly aggressive chemicals (e.g. dilute acids and bases), in laboratory applications, for level gauges, and as a protective cover for pipes, wires, cables, etc. The hose material is free of phthalates, silicone and cadmium. It complies with REACH, RoHS and WEEE regulations. In accordance with EU regulations, application to food products is possible after required migration tests have been carried out with appropriate model liquids simulating the type of food (the material used for the hose complies with the requirements of 10/2011/EU and FDA 21). The hose material is self-extinguishing according to UL94-V2 and UL94-HB (for thickness equal 3 mm).

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	bending radius [mm]	weight [kg/m]	length of a roll [m]
CX-CP-03X06	3	6	1.5	12	0.026	30
CX-CP-04X06	4	6	1	18	0.019	30
CX-CP-05X08	5	8	1.5	21	0.037	30
CX-CP-05X11	5	11	3	20	0.092	30
CX-CP-06X09	6	9	1.5	27	0.043	30
CX-CP-08X11	8	11	1.5	40	0.055	30
CX-CP-08X14	8	14	3	33	0.126	30
CX-CP-09X12	9	12	1.5	48	0.06	30
CX-CP-10X13	10	13	1.5	56	0.066	30
CX-CP-10X16	10	16	3	43	0.149	30
CX-CP-12X15	12	15	1.5	75	0.078	30
CX-CP-12X18	12	18	3	54	0.172	30
CX-CP-13X19	13	19	3	60	0.184	30
CX-CP-16X19	16	19	1.5	120	0.101	30
CX-CP-16X22	16	22	3	81	0.218	30
CX-CP-19X25	19	25	3	104	0.253	30
CX-CP-22X28	22	28	3	131	0.287	30
CX-CP-25X31	25	31	3	160	0.322	30
CX-CP-32X38	32	38	3	241	0.402	30
CX-CP-38X44	38	44	3	323	0.471	30
CX-CP-45X51	45	51	3	434	0.552	30
CX-CP-45X54	45	54	4.5	324	0.854	30
CX-CP-50X59	50	59	4.5	387	0.94	30
CX-CP-50X62	50	62	6	320	1.288	30
CX-CP-60X72	60	72	6	432	1.518	30
CX-CP-76X88	76	88	6	645	1.886	30

typical PVC hose , 20°C		
d [mm]	D [mm]	working pressure* [bar]
3	6	3.60
4	6	2.31
5	8	2.63
5	11	3.95
6	9	2.31
8	11	1.85
8	14	3.05
9	12	1.68
10	13	1.54
10	16	2.63
12	15	1.32
12	18	2.31
13	19	2.17
16	19	1.02
16	22	1.85
19	25	1.61
22	28	1.42
25	31	1.27
32	38	1.02
38	44	0.87
45	51	0.75
45	54	1.08
50	59	0.98
50	62	1.27
60	72	1.08
76	88	0.87

\* - Indicative value of the recommended working pressure at the 5:1 safety factor.

For hoses without reinforcement, the most frequently manufacturers do not specify the working pressure or the bursting pressure due to the less clear cut nature of hose bursting, preceded by permanent deformation of the hose. The values were calculated on the basis of the Lamé's formula: working pressure =  $(S/n) \times (D^2 - d^2) / (D^2 + d^2)$ , where S = 3 MPa (material stress at permanent deformation) and n=5 (safety factor). These are indicative values for typical PVC plasticized hose. Use of a hose for a specific working pressure should be preceded by a test under working conditions.

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure		100%	74%	55%	40%	30%

## Universal PVC hoses



### REFITTEX® CR

**Braid-reinforced PVC hose for food substances and general purpose use**

**Internal layer:** transparent PVC  
**Reinforcement:** polyester braid  
**External layer:** transparent PVC  
**Working temperature:** from -20°C to +60°C  
 (working pressure depends on the temperature)

Flexible general purpose braided reinforced hose for compressed air, water and slightly aggressive chemicals. It can be used (at temperatures up to 40°C) for liquid and semi-liquid foodstuffs such as juices, beverages, beer, wine, alcohols up to 50%, milk and its products. It is not recommended for oils and oily food substances.



REFITTEX CR hose complies with EU requirements 1935/2004/EC, 10/2011/EU (simulants A, B, C and D1), 2023/2006/EC (GMP). It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	weight [kg/m]	length of a roll [m]
FT-REFITTEX-CR-04X10	4	10	3	30	90	0.079	100
FT-REFITTEX-CR-05X11	5	11	3	26	78	0.092	100
FT-REFITTEX-CR-06X12	6	12	3	20	60	0.103	100
FT-REFITTEX-CR-08X14	8	14	3	20	60	0.126	100
FT-REFITTEX-CR-09X15	9	15	3	20	60	0.138	50
FT-REFITTEX-CR-10X16	10	16	3	20	60	0.149	50
FT-REFITTEX-CR-12X18	12	18	3	12	36	0.172	50
FT-REFITTEX-CR-13X19	13	19	3	12	36	0.184	50
FT-REFITTEX-CR-15X21	15	21	3	12	36	0.207	50
FT-REFITTEX-CR-16X22	16	22	3	10	30	0.218	50
FT-REFITTEX-CR-19X26	19	26	3.5	10	30	0.296	50
FT-REFITTEX-CR-25X33	25	33	4	8	24	0.436	50
FT-REFITTEX-CR-30X38	30	38	4	7	21	0.514	50
FT-REFITTEX-CR-32X42	32	42	5	7	21	0.695	25
FT-REFITTEX-CR-38X48	38	48	5	6	18	0.808	25
FT-REFITTEX-CR-40X50	40	50	5	6	18	0.846	25
FT-REFITTEX-CR-50X64	50	64	7	5	15	1.500	25

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

**You can find a wide variety of food hoses in the "Food Substance Hoses" section!**



REFITTEX CR hose assembled with nickel-plated brass ferrule with 3/8" BSP male thread (MW-2119008), by means of a hose worm drive clamp. The fitting enable easy connection with other pneumatics components without a need for additional seals.

## Universal PVC hoses



### WTZ

#### PVC general purpose hose reinforced with a braid

**Internal layer:** transparent PVC  
**Reinforcement:** polyester braid  
**External layer:** transparent PVC  
**Working temperature:** from -5°C to +50°C  
 (working pressure depends on the temperature)

A lightweight, flexible, popular general purpose PVC hose. Used for air, water and slightly aggressive chemicals in the industry, agriculture, horticulture and for domestic use.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	length of a roll [m]
PR-WTZ-08	8	12.5	2.25	15	45	60
PR-WTZ-10	10	14.5	2.25	10	30	60
PR-WTZ-12	12.5	17	2.25	12	35	60

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%



### WTZ / P

#### WTZ hose with quick release couplings, L=10 or 15 m

**Internal layer:** transparent PVC  
**Reinforcement:** polyester braid  
**External layer:** transparent PVC  
**Working temperature:** from -5°C to +50°C  
 (working pressure depends on the temperature)

Pneumatic hose extent - a ready-to-use air hose assembly made of WTZ hose. Complete with a brass Eurostandard DN7.2 socket and plug. The simplest solution for connecting pneumatic tools.

index	internal diameter [mm]	external diameter [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	length of the hose [m]	weight of the hose [kg]
PR-WTZ-P-10-10	10	14.5	10	30	10	1.225
PR-WTZ-P-10-15	10	14.5	10	30	15	1.785

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%



Pneumatic hose extents - ready-to-use compressed air hose assembly, complete with popular Eurostandard DN 7.2 quick release couplings, which fit many pneumatic tools, including: air guns, wheel pump guns or air wrenches.



## Universal PVC hoses



### RAGNO CR

**Braid-reinforced PVC hose for food substances and general purpose use**

**Internal layer:** transparent PVC  
**Reinforcement:** polyester braid  
**External layer:** transparent PVC  
**Working temperature:** from -5°C to +60°C  
 (working pressure depends on the temperature)

Flexible PVC pressure hose for general purpose and food products. Suitable for compressed air, water, water-based coolants, slightly aggressive chemicals as well as liquid and semi-liquid food products. Smooth internal wall reduces flow loss and ensures easy cleaning.

In the food industry it can be used to transfer hydrated foods, acidic foods, alcohols up to 20%, e.g. juices, beverages, beer, wine, (simulants A, B, C; up to +40°C and 0.5 h). Not recommended for milk, milk products and food substances containing fats and oils.



RAGNO CR hose complies with EU requirements 1978/142/EEC, 1935/2004/EC, 1895/2005/EC and 10/2011/EU (simulants A, B, C), 2023/2006/EC (GMP) and US FDA 21. It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	working pressure 40°C [bar]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
ME-RAGNO-CR-04X10	4	10	3	20	16	12	60	12	0.080	100
ME-RAGNO-CR-05X11	5	11	3	20	16	12	60	15	0.090	100
ME-RAGNO-CR-06X11	6	11	2.5	20	16	12	60	19	0.080	100
ME-RAGNO-CR-08X13	8	13	2.5	18	13	9	54	28	0.105	100
ME-RAGNO-CR-10X15	10	15	2.5	18	13	9	54	36	0.120	100
ME-RAGNO-CR-12X18	12	18	3	12	9	6	36	35	0.180	50
ME-RAGNO-CR-13X19	13	19	3	12	9	6	36	52	0.175	50
ME-RAGNO-CR-16X22	16	22	3	10	7	4	30	60	0.210	50
ME-RAGNO-CR-19X25	19	25	3	10	7	4	30	70	0.260	50
ME-RAGNO-CR-25X32	25	32	3.5	8	5	3	24	150	0.390	50
ME-RAGNO-CR-32X42	32	42	5	8	4	2	24	200	0.700	50
ME-RAGNO-CR-38X48	38	48	5	8	4	2	24	300	0.850	50
ME-RAGNO-CR-50X62	50	62	6	8	4	2	24	450	1.350	25

Note: indexes highlighted in color - the most common

**You can find a wide variety of food hoses in the "Food Substance Hoses" section!**



RAGNO CR DN12 hose assembled with a plastic (polyamide) ferrule with 1/2" BSPT male thread (NA-7100013012), by means of the EAR CLIP. Incidentally, the name - RAGNO means spider in Italian, which may refer to the intricate web of the braid that provides this hose with the pressure resistance.

## General purpose PVC hoses



### REFITTEX® 20 BAR

**Hose for air, water and agricultural chemicals**

**Internal layer:** black PVC  
**Reinforcement:** polyester braid  
**Internal layer:** black PVC (white strip)  
**Working temperature:** from -20°C to +60°C  
 (working pressure depends on the temperature)

Lightweight, highly flexible hose with a smooth inner area designed for compressed air, water, slightly aggressive chemicals, fungicides, fertilizers and pesticides. Commonly used in agriculture for sprinkling, irrigation and spraying. The external layer is abrasion and weather conditions resistant.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
FT-REFITTEX20-06	6	11	2.5	20	60	25	0.087	50
FT-REFITTEX20-08	8	13	2.5	20	60	32	0.104	25,50,100
FT-REFITTEX20-10	10	15	2.5	20	60	45	0.125	25,50,100
FT-REFITTEX20-13	13	19	3	20	60	52	0.190	25,50,100
FT-REFITTEX20-16	16	23	3.5	20	60	65	0.270	50
FT-REFITTEX20-19	19	26	3.5	20	60	90	0.312	50
FT-REFITTEX20-25	25	33	4	20	60	135	0.460	50

Note: indexes highlighted in color - the most common



### REFITTEX® 40 BAR

**Medium-pressure hose for water and agricultural chemicals**

**Internal layer:** black PVC  
**Reinforcement:** polyester braid  
**Internal layer:** black PVC (blue strip)  
**Working temp.:** from -20°C to +60°C  
 (working pressure depends on the temperature)

Heavy duty, flexible hose with a smooth internal layer designed for water, slightly aggressive chemicals, fungicides, fertilizers and pesticides. Commonly used in agriculture for sprinkling, irrigation and spraying. The external layer is resistant to abrasion, UV radiation and weather conditions. Mounting of fittings with clamps or ferrules.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
FT-REFITTEX40-06	6	12	3	40	120	16	0.107	100
FT-REFITTEX40-08	8	14	3	40	120	25	0.132	50,100
FT-REFITTEX40-10X16	10	16	3	40	120	40	0.156	50,100
FT-REFITTEX40-10X17	10	17	3.5	40	120	35	0.188	50
FT-REFITTEX40-13	13	21	4	40	120	40	0.270	50,100
FT-REFITTEX40-16	16	24	4	40	120	70	0.313	50
FT-REFITTEX40-19	19	28	4.5	40	120	80	0.410	50
FT-REFITTEX40-25	25	35	5	40	120	100	0.610	25

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

## General purpose PVC hoses



### REFITTEX® 80 BAR (50 BAR)

**High-pressure hose for water and agricultural chemicals**

**Internal layer:** black PVC  
**Reinforcement:** double polyester braid  
**Internal layer:** black PVC (red strip)  
**Working temperature:** from -20°C to +60°C  
 (working pressure depends on the temperature)

Heavy duty, thick, double-reinforced flexible hose with smooth internal layer designed for water, slightly aggressive chemicals, fungicides, fertilizers and pesticides. Used in agriculture for sprinkling, irrigation and spraying. The external layer is resistant to abrasion, UV radiation and weather conditions. Mounting of fittings with ferrules.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
FT-REFITTEX80-08	8	15	3.5	80	240	27	0.160	50.100
FT-REFITTEX80-10	10	18	4	80	240	40	0.222	50.100
FT-REFITTEX80-13	13	23	5	80	240	50	0.357	50.100
FT-REFITTEX80-16	16	26	5	50	150	85	0.415	50
FT-REFITTEX80-19	19	30	5.5	50	150	90	0.532	50

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%



### RP

**Braid-reinforced general purpose color PVC hose**

**Internal layer:** transparent PVC  
**Reinforcement:** polyester braid  
**External layer:** blue or red PVC  
**Working temperature:** -20°C to +55°C (temporarily +65°C)  
 (working pressure depends on the temperature, cold bending temperature up to -45°C)

High quality multi-functional flexible hose manufactured in UK. Designed for water, air, and slightly aggressive chemicals. The hose material is free of phthalates, silicone and cadmium. It complies with RoHS and WEEE regulations. In accordance with EU regulations, application to food products is possible after the required migration tests have been carried out with appropriate model liquids simulating the type of food (the material used for the hose complies with the requirements of 10/2011/EU and FDA 21). The hose material is self-extinguishing according to UL94-V2 and UL94-HB (for thickness equal 3 mm).

index (red)	index (blue)	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
CX-RP-06R	CX-RP-06BL	6.35	11.5	2.58	18.3	55	22	0.091	30
CX-RP-08R	CX-RP-08BL	8	13.5	2.75	16.7	50	29	0.116	30
CX-RP-10R	CX-RP-10BL	10	16	3	15	45	37	0.152	30
CX-RP-13R	CX-RP-13BL	12.5	18.5	3	15	45	49	0.181	30
CX-RP-19R	CX-RP-19BL	19	26	3.5	10	30	84	0.307	30

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

## General purpose PVC hoses



### SOFT PLUS

**Highly flexible PVC hose reinforced with braid**

**Internal layer:** yellow (Y) or blue (BL) PVC  
**Reinforcement:** polyester braid  
**External layer:** yellow (Y) or blue (BL) PVC  
**Working temperature:** from -25°C to +60°C  
 (working pressure depends on the temperature)

Lightweight, very soft, ultra-flexible and elastic hose characterized by high resistance to bending and no shape memory effect. Designed for air, water and slightly aggressive chemicals. Retains its flexibility at low temperatures. Abrasion-resistant external layer. Resistant to UV rays and weather conditions. Hose material free of cadmium and silicone. It meets the RoHS requirements.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
SH-SOFTPLUS-06Y	6.5	11.8	2.65	20	60	15	0.101	100
SH-SOFTPLUS-08BL	8	12.5	2.25	20	60	25	0.094	100
SH-SOFTPLUS-09Y	9.5	15.1	2.8	20	60	30	0.139	100
SH-SOFTPLUS-10BL	10	15	2.5	20	60	35	0.128	100
SH-SOFTPLUS-12Y	12.7	18.5	2.9	20	60	35	0.159	100

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for SOFT PLUS hose	temperature	20°C	32°C	38°C	50°C	60°C
	pressure	100%	84%	77%	60%	41%



### SOFT PLUS / P

**SOFT PLUS hose with quick release couplings, L=10 or 15 m**

**Internal layer:** yellow (Y) or blue (BL) PVC  
**Reinforcement:** polyester braid  
**External layer:** yellow (Y) or blue (BL) PVC  
**Working temperature:** from -25°C to +60°C  
 (working pressure depends on the temperature)

Pneumatic hose extent - a ready-to-use air hose assembly made of SOFT PLUS hose. Complete with a brass Eurostandard DN7.2 socket and plug matching quick release couplings popular in the market. Equipped with bend restrictors. Ideal solution to connect pneumatic tools. Easy to operate. It damps vibrations. It ensures a high standard of operator's work.



index	internal diameter [mm]	external diameter [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	length of the hose [m]	approximate weight of the hose [kg]
SH-SOFTPLUS-P-06Y-10	6.5	11.8	20	60	15	10	1.188
SH-SOFTPLUS-P-08BL-10	8	12.5	20	60	25		1.124
SH-SOFTPLUS-P-09Y-10	9.5	15.1	20	60	30		1.587
SH-SOFTPLUS-P-10BL-10	10	15	20	60	35		1.469
SH-SOFTPLUS-P-12Y-10	12.7	18.5	20	60	35		1.820
SH-SOFTPLUS-P-06Y-15	6.5	11.8	20	60	15	15	1.693
SH-SOFTPLUS-P-08BL-15	8	12.5	20	60	25		1.595
SH-SOFTPLUS-P-09Y-15	9.5	15.1	20	60	30		2.284
SH-SOFTPLUS-P-10BL-15	10	15	20	60	35		2.107
SH-SOFTPLUS-P-12Y-15	12.7	18.5	20	60	35		2.614

Note: indexes highlighted in color - the most common



## General purpose PVC hoses



### TCN COLOR

**General purpose PVC hose reinforced with braid, suitable also for food substances**

**Internal layer:** transparent PVC  
**Reinforcement:** polyester braid  
**External layer:** blue or red PVC  
**Working temperature:** -15°C to +60°C  
(working pressure depends on the temperature)

Multi-functional PVC hose, soft, flexible and elastic. Designed for water, air, and slightly aggressive chemicals. Used frequently for colorful distinction of individual installation lines. Available in black per request.

It can be used (at temperatures up to 40°C) for liquid and semi-liquid foodstuffs such as juices, beverages, beer, wine, alcohols up to 50%, milk and its products. It is not recommended for oils and oily food substances.



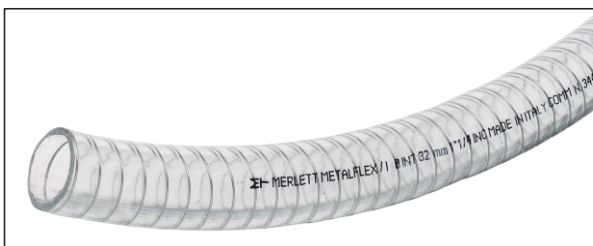
TCN COLOR hose complies with EU requirements 1935/2004/EC, 10/2011/EU (simulants A, B, C and D1), 2023/2006/EC (GMP). It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index (blue)	index (red)	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	weight [kg/m]	length of a roll [m]
TR-TCN-06-BL	TR-TCN-06-R	6.3	11	2.35	22	66	0.076	30
TR-TCN-08-BL	TR-TCN-08-R	8	13	2.5	21	63	0.100	30
TR-TCN-10-BL	TR-TCN-10-R	10	16	3	20	60	0.146	30
TR-TCN-13-BL	TR-TCN-13-R	12.5	18	2.75	20	60	0.159	30
TR-TCN-19-BL	TR-TCN-19-R	19	26	3.5	20	60	0.298	30
TR-TCN-25-BL	TR-TCN-25-R	25	33	4	16	48	0.439	30

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%



### ARMORVIN (METALFLEX) INDUSTRY

**PVC hose reinforced with steel wire helix**

**Hose material:** transparent soft PVC  
**Reinforcement:** steel wire helix  
**Working temp.:** from -5°C to +65°C  
(working pressure depends on the temperature)

Universal, lightweight, highly flexible suction and delivery hose designed for general industrial applications for water and slightly aggressive chemicals and other liquids (without grease, oils and hydrocarbons). It can also be used for air, vacuum transfer of dusts, powders and other low abrasive materials (abrasiveness and possible problem of the static electricity must be considered). Reinforcement with a steel wire helix embedded in a soft PVC wall provides good resistance to the vacuum and kinking of the hose. The transparent wall enables easy visual inspection of the flow. As a hose reinforced with a steel helix only (no braid) it is characterized by some elongation when under pressure; it must be considered, in particular, at elevated temperatures.

Note: Information (branding) on the hose: (Continental) MERLETT METALFLEX / I.

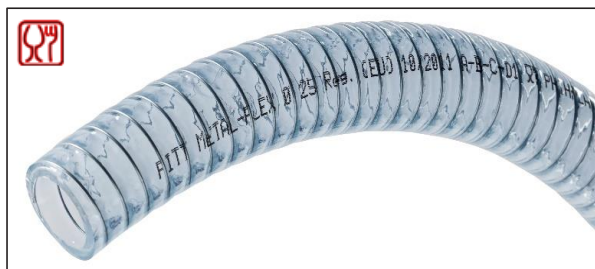
index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 23°C [bar]	bursting pressure 23°C [bar]	vacuum 23°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
ME-ARMIND-12	12	17.5	2.75	7	21	0.85	30	0.16	60
ME-ARMIND-25	25	32	3.5	5	15	0.85	65	0.45	60
ME-ARMIND-32	32	40	4	4.5	13.5	0.85	80	0.58	60
ME-ARMIND-40	40	49	4.5	3	9	0.85	100	0.845	30

Note: indexes highlighted in color - until stock lasts

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

**Check out hoses with similar characteristics in this section and in the section titled "Hoses for food substances" !**

## General purpose PVC hoses



### METALFLEX PVC

**PVC hose reinforced with a steel wire helix, general purpose and for food substances**

**Hose material:** transparent soft PVC  
**Reinforcement:** steel wire helix  
**Working temperature:** from -10°C to +65°C  
 (working pressure depends on the temperature)

Universal, lightweight, highly flexible suction and delivery hose designed for general industrial applications for water and slightly aggressive chemicals and other liquids (without grease, oils and hydrocarbons). It can also be used for air, vacuum transfer of dusts and powders, in such a case the abrasiveness and possible problem of the static electricity must be considered. It can be used (at temperatures up to 40°C) for liquid and semi-liquid foodstuffs such as juices, beverages, beer, wine, alcohols up to 50%, milk and its products. It is not recommended for oils and oily food substances. Reinforcement with a steel wire helix embedded in a soft PVC wall provides good resistance to the vacuum and kinking of the hose. The transparent wall enables easy visual inspection of the flow. As a hose reinforced with a steel helix only (no braid) it is characterized by some elongation when under pressure; it must be considered, in particular, at elevated temperatures.



METALFLEX PVC hose complies with EU requirements 1935/2004/EC, 10/2011/EU (simulants A, B, C and D1), 2023/2006/EC (GMP) and FDA CFR 21 175.300 i 175.1210 It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	vacuum 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
FT-MFLEX-PVC-010	10	16	3	9	27	0.9	25	0.16	30
FT-MFLEX-PVC-012	12	18	3	9	27	0.9	30	0.18	30
FT-MFLEX-PVC-013	13	19.2	3.1	9	27	0.9	30	0.19	30
FT-MFLEX-PVC-014	14	20.4	3.2	8	24	0.9	30	0.20	30
FT-MFLEX-PVC-016	16	22.6	3.3	8	24	0.9	35	0.25	30
FT-MFLEX-PVC-018	18	25	3.5	8	24	0.9	40	0.28	30
FT-MFLEX-PVC-019	19	26	3.5	7	21	0.9	40	0.305	30
FT-MFLEX-PVC-020	20	27.2	3.6	7	21	0.9	45	0.34	30
FT-MFLEX-PVC-025	25	33	4	6	18	0.9	55	0.51	30
FT-MFLEX-PVC-030	30	38	4	5	15	0.9	70	0.60	30
FT-MFLEX-PVC-032	32	40.2	4.1	5	15	0.9	75	0.65	30
FT-MFLEX-PVC-035	35	43.4	4.2	4	12	0.9	85	0.73	30
FT-MFLEX-PVC-038	38	47	4.5	4	12	0.9	90	0.80	30
FT-MFLEX-PVC-040	40	49	4.5	4	12	0.9	95	0.87	30
FT-MFLEX-PVC-045	45	55	5	4	12	0.8	105	1.10	30
FT-MFLEX-PVC-050	51	61.4	5.2	3	9	0.8	120	1.20	30
FT-MFLEX-PVC-060	60	72	6	3	9	0.8	150	1.80	30
FT-MFLEX-PVC-063	63	75	6	3	9	0.8	160	1.95	30
FT-MFLEX-PVC-070	70	82	6	2.5	7.5	0.8	175	2.20	30
FT-MFLEX-PVC-076	76	88	6	2.5	7.5	0.8	190	2.50	30
FT-MFLEX-PVC-080	80	92.4	6.2	2.5	7.5	0.8	220	2.70	30
FT-MFLEX-PVC-090	90	104	7	2.5	7.5	0.7	245	3.00	30
FT-MFLEX-PVC-102	102	117	7.5	2.5	7.5	0.7	280	3.40	30
FT-MFLEX-PVC-110	110	125	7.5	2	6	0.6	345	3.67	30
FT-MFLEX-PVC-120	120	135.4	7.7	2	6	0.6	375	4.40	30
FT-MFLEX-PVC-127	127	143	8	2	6	0.6	410	4.70	30
FT-MFLEX-PVC-152	152	168.8	8.4	1	4	0.6	490	6.35	30

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

**You can find a wide variety of food hoses in the "Food Substance Hoses" section!**

## General purpose PVC hoses



### VACUPRESS SUPERELASTIC

**PVC hose reinforced with steel wire helix and braid - for food substances and handling**

**Internal layer:** white PVC  
**Reinforcement:** polyester braid, steel helix  
**External layer:** black PVC  
**Working temperature:** from -25°C to +60°C  
 (working pressure depends on the temperature)

Very elastic and flexible general purpose suction and delivery hose designed for water, liquids and slightly aggressive chemicals. Used for loading and unloading of tankers, pallet trucks and for transfer of liquids in industrial installations, etc. It maintains its high flexibility at sub-zero ambient temperatures. Smooth internal layer makes it easy to keep the hose clean and increases the unloading efficiency by 20% compared to typical rubber hoses. The external layer is abrasion and weather conditions resistant. In the food industry it can be used to transfer / reloading hydrated foods, acidic foods, alcohols up to 20%, e.g. juices, beverages, beer and wine (simulants A, B, C; up to +40°C and 2 h). Not recommended for milk and milk products, as well as oils and fatty food substances.



For the wine and juice processing industry, the red (from the outside) version of VACUPRESS ENO is available on request. Per special order - version with an anti-static wire - contact Tubes International.



VACUPRESS SUPERELASTIC hose complies with EU requirements 1978/142/EEC, 1935/2004/EC, 1895/2005/EC and 10/2011/EU (simulants A, B, C), 2023/2006/EC (GMP) It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	vacuum 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
ME-VACUPRSE-019	19	28	4.5	20	60	0.9	70	0.475	60
ME-VACUPRSE-025	25	35.5	5.3	16	48	0.9	80	0.680	60
ME-VACUPRSE-030	30	40.5	5.3	16	48	0.9	90	0.770	60
ME-VACUPRSE-032	32	42.5	5.3	16	48	0.9	100	0.800	60
ME-VACUPRSE-035	35	47	6	14	42	0.9	115	1.100	60
ME-VACUPRSE-038	38	51	6.5	14	42	0.9	125	1.200	30
ME-VACUPRSE-040	40	52	6	14	42	0.9	130	1.200	30
ME-VACUPRSE-045	45	58	6.5	12	36	0.9	140	1.400	30
ME-VACUPRSE-050	50	63.5	6.8	12	36	0.9	150	1.600	30
ME-VACUPRSE-060	60	74	7	12	36	0.9	180	2.000	30
ME-VACUPRSE-063	63	77	7	12	36	0.9	190	2.100	30
ME-VACUPRSE-076	76	92	8	12	36	0.9	210	2.970	30
ME-VACUPRSE-080	80	96	8	10	30	0.9	220	2.950	30
ME-VACUPRSE-102	102	119	8.5	10	30	0.9	300	4.000	30
ME-VACUPRSE-120	120	138	9	8	24	0.9	350	5.300	20
ME-VACUPRSE-127	127	145	9	7	21	0.9	370	5.800	20
ME-VACUPRSE-152	152	171	9.5	5	15	0.9	480	6.850	20

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

**You can find a wide variety of food hoses in the "Food Substance Hoses" section!**

## General purpose PVC hoses



### AGROFLEX LD

**PVC hose reinforced with a hard PVC helix, general purpose and for food substances**

**Hose material:** green transparent PVC  
**Reinforcement:** white hard PVC helix  
**Working temp.:** from -10°C to +60°C  
(working pressure depends on the temperature)

Very lightweight and flexible suction and delivery hose for agriculture, food industry and general purpose applications. Suitable for water, slightly aggressive chemicals, slurries and wastewater, crop protection products, other liquids (without grease, oils and hydrocarbons). Also for air, vacuum transfer of dusts, powders, granules and other **slightly** abrasive bulk substances (non-greasy). Abrasiveness and possible problem of the static electricity must be considered.

In the food industry it can be used to transfer hydrated foods, acidic foods, alcohols up to 20%, e.g. juices, beverages, beer, wine, (simulants A, B, C; up to +40°C). Not recommended for milk, milk products and food substances containing fats and oils.

Reinforced with a resistant to impact hard PVC helix it provides good resistance to vacuum and kinking of the hose. Corrugated exterior layer, smooth interior.



AGROFLEX LD hose complies with EU requirements 1935/2004/EC, 10/2011/EU (simulants A, B, C), 2023/2006/EC (GMP). It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



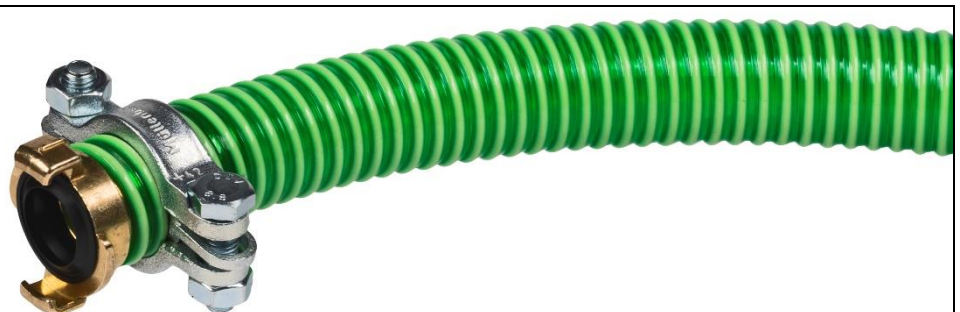
index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	vacuum 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
FT-AGROFLEX-LD-019	19	24	2.5	6	18	0.6	100	0.180	50
FT-AGROFLEX-LD-025	25	30.4	2.7	6	18	0.6	130	0.250	50
FT-AGROFLEX-LD-032	32	37.8	2.9	6	18	0.6	170	0.330	50
FT-AGROFLEX-LD-038	38	44.4	3.2	5	15	0.6	210	0.420	50
FT-AGROFLEX-LD-040	40	46.8	3.4	5	15	0.6	220	0.460	50
FT-AGROFLEX-LD-045	45	51.8	3.4	5	15	0.6	260	0.530	50
FT-AGROFLEX-LD-050	50	57	3.5	5	15	0.6	280	0.660	50
FT-AGROFLEX-LD-060	60	68	4	4	12	0.5	350	0.840	50
FT-AGROFLEX-LD-063	63	71.2	4.1	4	12	0.5	370	0.900	50
FT-AGROFLEX-LD-076	76	84.8	4.4	4	12	0.5	530	1.150	50
FT-AGROFLEX-LD-090	90	99.6	4.8	3	9	0.4	630	1.550	30
FT-AGROFLEX-LD-100	100	110	5	3	9	0.4	680	1.800	30
FT-AGROFLEX-LD-125	125	136	5.5	2	6	0.3	780	2.800	20
FT-AGROFLEX-LD-150	150	162.6	6.3	2	6	0.3	880	3.800	20

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

**You can find a wide variety of food hoses in the "Food Substance Hoses" section!**

AGROFLEX LD DN32 hose assembled with a brass claw coupling with a 40 mm claw distance (MU-5008), clamped with a strong cast iron clamp (MU-1504) used for water at a stud farm in northeastern Poland.





## General purpose PVC hoses



### FLORIDA

**PVC hose reinforced with a hard PVC helix, general purpose and for food substances**

**Hose material:** transparent PVC  
**Reinforcement:** hard PVC helix (gray)  
**Working temperature:** from -5°C to +60°C  
 (working pressure depends on the temperature)

Very light and flexible suction and delivery hose, designed for general industrial applications (industry, construction, agriculture). It can be used for water, slightly aggressive chemicals, sludge and wastewater, crop protection products and other liquids (without grease, oils and hydrocarbons) as well as for air, vacuum transfer of dusts, powders, granules and other **slightly** abrasive bulk substances (non-greasy). Abrasiveness and possible problem of the static electricity must be considered.

In the food industry, it can be used to transfer hydrated foods, acidic foods, alcohols up to 20%, e.g. juices, beverages, beer, wine, (simulants A, B, C; up to +60°C and 2 h). Not recommended for milk and milk products, as well as oils and fatty food substances. Reinforced with a resistant to impact hard PVC helix it provides good resistance to vacuum and kinking of the hose. Smooth internal layer reduces the flow loss and ensures easy cleaning. The external layer is slightly corrugated, for small diameters, smooth.



FLORIDA hose complies with EU requirements 1978/142/EEC, 1935/2004/EC, 1895/2005/EC and 10/2011/EU (simulants A, B, C), 2023/2006/EC (GMP). It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	vacuum 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
ME-FLORIDA-020	20	24.9	2.4	6.5	19.5	0.6	110	0.210	25
ME-FLORIDA-025	25	29.7	2.4	6.5	19.5	0.6	140	0.250	25
ME-FLORIDA-030	30	35	2.5	6	18	0.6	175	0.330	25
ME-FLORIDA-032	32	37.2	2.6	6	18	0.6	180	0.350	25
ME-FLORIDA-035	35	40.4	2.7	6	18	0.6	195	0.400	25
ME-FLORIDA-038	38	43.6	2.8	6	18	0.6	210	0.430	25
ME-FLORIDA-040	40	46	3	5.5	16.5	0.6	220	0.480	25
ME-FLORIDA-045	45	52	3.5	5.5	16.5	0.6	255	0.640	25
ME-FLORIDA-050	50	58.4	4.2	5.5	16.5	0.6	275	0.760	25
ME-FLORIDA-055	55	63.8	4.4	5.5	16.5	0.6	310	0.860	25
ME-FLORIDA-060	60	68.4	4.2	4	12	0.6	330	0.900	25
ME-FLORIDA-063	63	71.2	4.1	4	12	0.6	350	0.970	25
ME-FLORIDA-070	70	79	4.5	3	9	0.6	450	1.130	25
ME-FLORIDA-075	75	84.4	4.7	3	9	0.6	500	1.200	25
ME-FLORIDA-080	80	89.4	4.7	3	9	0.6	550	1.450	25

Note: indexes highlighted in color - the most common

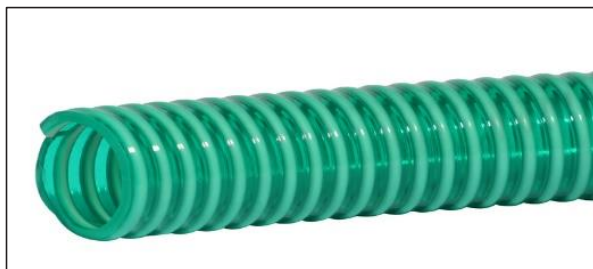
Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

FLORIDA DN25 hose assembled with a STORZ coupling made of aluminum, with a lug distance of 31 mm (ST-12-031025-11), clamped with a worm drive hose clamp.





**General purpose PVC hoses**



**LOUISIANA SUPERELASTIC**

**Highly flexible, low temperature resistant PVC hose reinforced with PVC helix**

**Hose material:** green transparent PVC  
**Reinforcement:** hard PVC helix  
**Working temperature:** from -25°C to +55°C  
 (working pressure depends on the temperature)

Light and flexible suction and delivery hose, even at very low temperature, designed for general industrial applications (industry, construction, agriculture). It can be used for water, slightly aggressive chemicals, sludge and wastewater, crop protection products and other liquids (without grease, oils and hydrocarbons) as well as for air, vacuum transfer of dusts, powders, granules and other **slightly** abrasive bulk substances (non-greasy). Abrasiveness and possible problem of the static electricity must be considered.

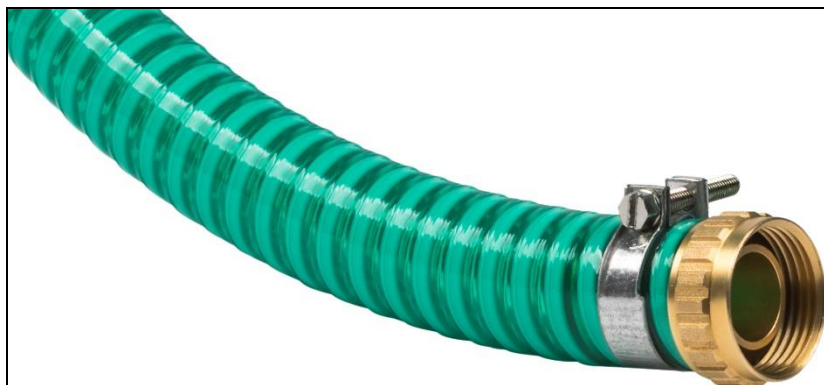
Reinforced with a resistant to impact hard PVC helix it provides good resistance to vacuum and kinking of the hose. Smooth internal layer reduces the flow loss and ensures easy cleaning. The external layer is slightly corrugated, for small diameters, smooth.

As a hose reinforced with a hard PVC helix only, without the braid, it is characterized by some elongation when under pressure; it must be considered, in particular, at elevated temperatures.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	vacuum 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
ME-LUISIANA-SE-020	20	26.2	3.1	6.5	19.5	0.7	65	0.275	50
ME-LUISIANA-SE-025	25	31.6	3.3	6.5	19.5	0.7	100	0.330	50
ME-LUISIANA-SE-030	30	37	3.5	5.5	16.5	0.7	125	0.420	50
ME-LUISIANA-SE-032	32	39.2	3.6	5.5	16.5	0.7	135	0.460	50
ME-LUISIANA-SE-035	35	41.8	3.4	5	15	0.7	145	0.500	50
ME-LUISIANA-SE-038	38	45.4	3.7	4.5	13.5	0.7	155	0.550	50
ME-LUISIANA-SE-040	40	47.8	3.9	4.5	13.5	0.7	160	0.610	50
ME-LUISIANA-SE-045	45	52.8	3.9	4	12	0.7	180	0.670	50
ME-LUISIANA-SE-050	50	58.2	4.1	3.5	10.5	0.7	200	0.810	50
ME-LUISIANA-SE-060	60	69	4.5	3.5	10.5	0.7	245	0.970	50
ME-LUISIANA-SE-063	63	71.2	4.1	3.5	10.5	0.7	260	1.040	50
ME-LUISIANA-SE-076	76	86	5	2.5	7.5	0.7	320	1.380	50
ME-LUISIANA-SE-102	102.3	113.9	5.8	2.5	7.5	0.7	430	2.200	25
ME-LUISIANA-SE-127	127	140.6	6.8	2	6	0.5	670	3.130	25
ME-LUISIANA-SE-152	152.4	167.2	7.4	2	6	0.5	750	4.250	25

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%



LOUISIANA SE DN20 hose assembled with a brass fitting with a 3/4" BSP female thread (NT-27250A4) clamped with a MINI screw clamp, designed for water with plant protection products in a botanical garden in Ukraine. Practically smooth external layer of the LOUISIANA SE DN20 hose and its rather soft wall facilitates proper and tight clamping to the ferrule even with a light hose MINI clamp.

## General purpose PVC hoses



### PREMIUM

**PVC general purpose hose reinforced with a braid**

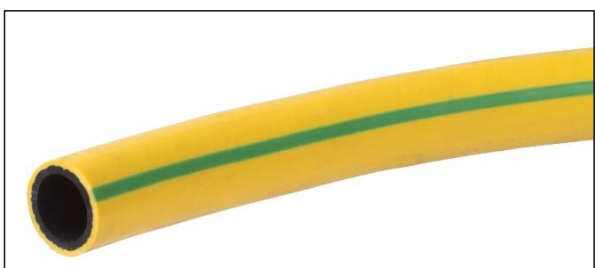
**Internal layer:** transparent PVC  
**Reinforcement:** polyester braid  
**External layer:** green transparent PVC  
**Working temperature:** from -5°C to +60°C  
 (working pressure depends on the temperature)

Lightweight and flexible, popular general purpose PVC hose. Used for water, air and slightly aggressive chemicals in the industry, agriculture, horticulture and for domestic use.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	weight [kg/m]	length of a roll [m]
VLM-PREMIUM-06	6	11	2.5	17	50	0.09	50
VLM-PREMIUM-08	8	13	2.5	15	45	0.105	50
VLM-PREMIUM-10	10	14.5	2.25	14	40	0.11	50
VLM-PREMIUM-13	12.7	17	2.15	12	36	0.14	50
VLM-PREMIUM-16	16	22	3	12	36	0.23	50
VLM-PREMIUM-19	19	26	3.5	10	30	0.32	50
VLM-PREMIUM-25	25	32	3.5	10	24	0.4	50
VLM-PREMIUM-32	32	40	4	10	21	0.59	50

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%



### PROFI

**Heavy duty PVC general purpose hose**

**Internal layer:** black PVC  
**Reinforcement:** polyester braid  
**External layer:** yellow PVC  
**Working temperature:** from -5°C to +60°C  
 (working pressure depends on the temperature)

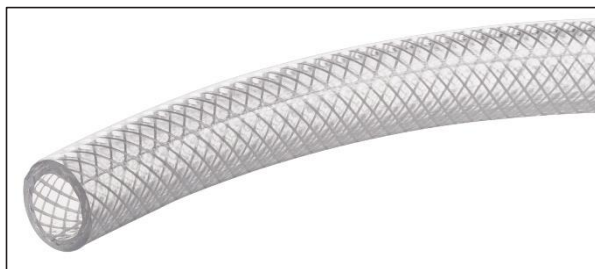
Heavy duty general purpose PVC hose, with specially reinforced wall and braid structure. It offers a good resistance to kinking. Designed for water, air and slightly aggressive chemicals in agriculture, horticulture and industry.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	weight [kg/m]	length of a roll [m]
VLM-PROFI-13	12.7	17.3	2.3	10	32	0.15	50
VLM-PROFI-19	19	26	3.5	10	25	0.34	50
VLM-PROFI-25	25.4	34.4	4.5	10	18	0.55	50

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

## General purpose PVC hoses



### PVC 1125

**Braid-reinforced PVC hose for water and potable water**

**Internal layer:** transparent PVC  
**Reinforcement:** polyester braid  
**External layer:** transparent PVC  
**Working temperature:** from -5°C to +60°C  
 (working pressure depends on the temperature)

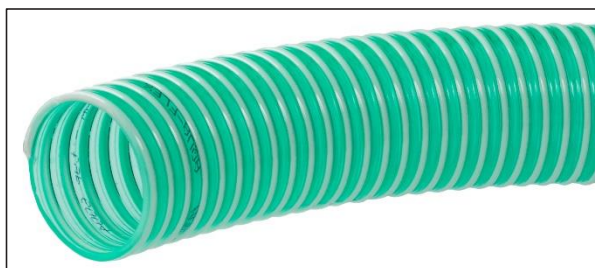
High-quality PVC hose designed for water. It can be used for transmission of the potable water (short-term contact with drinking water) - it has a certificate of compliance with the requirements of 409/2005 Sb for this application issued in the Czech Republic (contact Tubes International). For use in industry, agriculture, horticulture and domestic applications.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	weight [kg/m]	length of a roll [m]
VLM-PVC-1125-06	6	11	2.5	17	50	0.09	50
VLM-PVC-1125-08	8	13	2.5	15	45	0.105	50
VLM-PVC-1125-10	10	14.5	2.25	14	40	0.11	50
VLM-PVC-1125-13	12.7	17	2.15	12	36	0.14	50
VLM-PVC-1125-16	16	22	3	12	36	0.23	50
VLM-PVC-1125-19	19	26	3.5	10	30	0.32	50
VLM-PVC-1125-25	25	32	3.5	10	24	0.4	50
VLM-PVC-1125-32	32	40	4	10	21	0.59	50

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

Find the potable water hoses in the "Water and air hoses" and "Food substance hoses" sections.



### AQUA-FLEX

**Economical PVC suction hose for universal applications, reinforced with hard PVC helix**

**Hose material:** green transparent PVC  
**Reinforcement:** white hard PVC helix  
**Working temperature:** from -20°C to +60°C  
 (working pressure depends on the temperature)

Lightweight, flexible, economical suction and discharge hose for universal applications. Smooth inside layer, slightly corrugated from the outside. Suitable for water, slightly aggressive chemicals, slurries and wastewater, crop protection products, other liquids (avoid grease, oils and hydrocarbons). Also for air, vacuum transfer of dusts, powders, light granules and other **slightly** abrasive bulk substances. Abrasiveness and possible problem of the static electricity must be considered. Widely used in agriculture, horticulture and domestic applications.

As a hose reinforced with a hard PVC helix only, without the braid, it is characterized by some elongation when under pressure; it must be considered, in particular, at elevated temperatures.

index	internal diameter [mm]	external diameter (approx.) [mm]	wall thickness [mm]	vacuum 20°C [bar]	weight [kg/m]	length of a roll [m]
VLM-AQUAFLEX-020	20	24.3	1.9	0.6	0.185	30
VLM-AQUAFLEX-025	25	30	2.1	0.6	0.23	30
VLM-AQUAFLEX-030	30	35	2.2	0.6	0.27	30
VLM-AQUAFLEX-032	32	37	2.2	0.6	0.3	30
VLM-AQUAFLEX-038	38	44	2.6	0.6	0.4	30
VLM-AQUAFLEX-040	40	46	2.6	0.6	0.41	30
VLM-AQUAFLEX-050	50	57	3	0.6	0.6	30
VLM-AQUAFLEX-060	60	68.5	3.6	0.6	0.85	30

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and the working pressure on the temperature for typical PVC hoses	temperature	20°C	30°C	40°C	50°C	60°C	70°C
	pressure	100%	74%	55%	40%	30%	22%

## Universal polyurethane (PU) and PVC hoses



### ARMORVIN PRESS PU

**Steel wire helix reinforced polyurethane hose with PVC external layer**

**Internal layer:** transparent polyurethane (PU)  
**Reinforcement:** steel wire helix  
**Internal layer:** transparent PVC  
**Working temperature:** from -20°C to +90°C (medium)  
 (working pressure depends on the temperature)

Lightweight, flexible, suction and discharge hose with abrasion & oil resistant polyurethane internal layer, with a dense steel reinforcing helix for increased working pressure and vacuum resistance. Designed for air, liquids, slightly aggressive chemicals, in pneumatic and hydraulic systems and for transfer of solids. Smooth internal layer reduces the flow loss and ensures easy cleaning. The transparent wall enables simple visual inspection of the flow. Small pitch helix reinforcement provides very good resistance to vacuum and kinking of the hose as well as a small bending radius.

In general industrial applications it can be used:

- for water, slightly aggressive chemicals and other fluids based on grease, oils and hydrocarbons (the chemical resistance of the polyurethane should be considered);
- for air, for vacuum transfer of dusts, powders, granules and other abrasive bulk substances (abrasiveness of an utility and the possible problem of the static electricity must be considered).

It can be used in the food industry (where U.S. FDA 21 CFR 177.2600 e, f requirements are acceptable) for liquid food substances for hydrated ("e") and fatty ("f") foods.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	vacuum 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
ME-ARMPREPU-05	5	10	2.5	20	60	0.9	20	0.080	60
ME-ARMPREPU-06	6	11	2.5	20	60	0.9	23	0.095	60
ME-ARMPREPU-08	8	13.5	2.75	18	54	0.9	32	0.135	60
ME-ARMPREPU-09	9.5	15.5	3	18	54	0.9	38	0.165	60
ME-ARMPREPU-10	10	16	3	17	51	0.9	40	0.180	60
ME-ARMPREPU-12	12	18	3	16	48	0.9	45	0.210	60
ME-ARMPREPU-13	12.7	19	3.15	15	45	0.9	50	0.230	60
ME-ARMPREPU-14	14	20.5	3.25	14	42	0.9	56	0.240	60
ME-ARMPREPU-16	16	23	3.5	14	42	0.9	63	0.290	60
ME-ARMPREPU-18	18	25	3.5	12	36	0.9	70	0.320	60
ME-ARMPREPU-19	19.1	26	3.45	12	36	0.9	76	0.320	60
ME-ARMPREPU-20	20	27	3.5	12	36	0.9	80	0.340	60

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and working pressure on the temperature for typical polyurethane (PU) hoses							
temperature	20°C	30°C	40°C	50°C	60°C	70°C	
pressure	100%	84%	70%	60%	52%	46%	



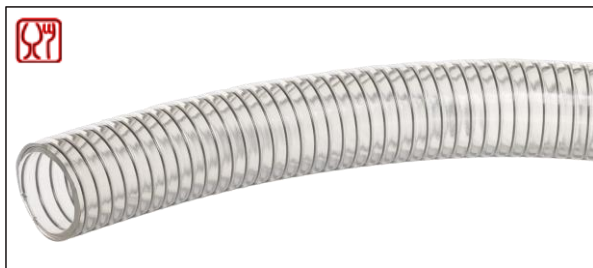
ARMORVIN PRESS PU hose DN20 with a brass fitting (NT-2760EA4) with male 3/4" BSP thread, fitted with a hose clamp.

ARMORVIN PRESS PU hose DN10 with a hydraulic fitting (TI-ZNZ110-06-06) with male 3/8" NPT thread, ferrule mounted.





## Universal polyurethane (PU) hoses



### ARMORVIN TOTAL PU OIL TPHF

**Polyurethane hose reinforced with dense steel helix, for greasy food substances and general purpose**

**Hose material:** transparent polyurethane  
**Reinforcement:** steel wire galvanized helix  
**Working temperature:** from -40°C to +90°C (temperature of the medium, working pressure depends on the temperature)

Heavy duty and flexible suction and delivery hose made completely of the abrasion-resistant polyurethane, offering high resistance to fats and oils. **The hose is phthalate-free and can be used in the food industry for transferring liquid and dry food substances.** It includes:

- in particular, food fats and oils, e.g. olive oil (simulant D2; up to +40°C and 30 min);
- milk and milk products, dairy drinks (simulant D1, up to +40°C and 30 min);
- hydrated foods, acidic foods, alcohol up to 20%, and dry foods (simulants A, B, C, E; up to +70°C and 1 h);

In non-direct food contact applications (industry, construction, agriculture) it can be used for water, slightly aggressive chemicals and other fat-based liquids and industrial oils (chemical resistance should be considered). Also used for air, vacuum transfer of dusts, powders, granules and other abrasive bulk substances (abrasiveness and the possible problem of the static electricity must be considered).

Very smooth internal layer reduces the flow loss and ensures easy cleaning. The transparent wall enables simple visual inspection of the flow. Reinforcement with a **dense helix** of steel wire provides very good resistance to the negative pressure and the hose kinking. Production of the hose based on the polyurethane, when compared to similar PVC hoses, results in significantly higher abrasion resistance, higher strength (working pressure and vacuum) and a greater temperature range with slightly lower flexibility.



ARMORVIN TOTAL PU OIL TPHF hose complies with EU requirements 1935/2004/EC, 1895/2005/EC and 10/2011/EU (simulants A, B, C, D1, D2, E), 2023/2006/EC (GMP) and US FDA 21 CFR 177.2600 (d). It is suitable for temporary contact with food in the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	vacuum 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
ME-ARMTPU-OIL-020	20.5	28.5	4	7	21	0.9	80	0.41	30
ME-ARMTPU-OIL-025	25.3	33.5	4.1	7	21	0.9	100	0.52	30
ME-ARMTPU-OIL-030	30.4	39.2	4.4	7	21	0.9	120	0.62	30
ME-ARMTPU-OIL-032	32	41	4.5	6	18	0.8	130	0.69	30
ME-ARMTPU-OIL-040	40	49.4	4.7	6	18	0.8	160	0.90	30
ME-ARMTPU-OIL-050	51	60.4	4.7	6	18	0.8	200	1.16	30
ME-ARMTPU-OIL-060	60	70	5	6	18	0.8	240	1.44	30
ME-ARMTPU-OIL-070	70.4	80	4.8	5	15	0.8	300	1.65	30
ME-ARMTPU-OIL-075	75.4	85.2	4.9	5	15	0.7	320	1.73	30
ME-ARMTPU-OIL-080	80	90	5	4	12	0.7	340	1.80	30
ME-ARMTPU-OIL-100	100	114	7	3	9	0.7	400	3.25	20

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and working pressure on the temperature for typical polyurethane (PU) hoses						
temperature	20°C	30°C	40°C	50°C	60°C	70°C
pressure	100%	84%	70%	60%	52%	46%



ARMORVIN TOTAL PU OIL TPHF DN25 hose assembled with a screw hose clamp with an IBC coupling made of polypropylene (AC-IBF060-H100), with S60x6 female thread for unloading IBC containers in Kazakhstan.



## Universal polyurethane (PU) hoses



### CPU

#### Low-pressure polyurethane hose without reinforcement

**Hose material:** soft transparent polyurethane (polyether) phthalate-free  
**Working temperature:** from -30°C to +70°C (temporarily up to +100°C, working pressure depends on the temperature)  
**Brittleness temperature:** -70°C

Universal flexible high quality polyurethane hose manufactured in the UK. Suitable for water, air, oils, fuels, lubricants, chemicals and granules. As a non-reinforced hose it is suitable for very low pressures, up to several bars and as a protective hose. The crystal clear wall ensures excellent observation of the medium being transferred. Smooth internal layer facilitates both the flow and the cleaning process. Stronger hose compared to similar PVC hoses, more able to hold its shape; well resistant to kinking, flexible at low temperatures. Made of the polyurethane - polyether; resistant to hydrolysis and abrasion. It does not contain cadmium, silicone, plasticizers and halogen compounds.

In accordance with EU regulations, application to food products is possible after the required migration tests have been carried out with appropriate model fluids simulating the type of food (the material used for the hose complies with FDA 21 CFR 175.105, 177.1680, 177.2600 and WRAS requirements for 23°C water).

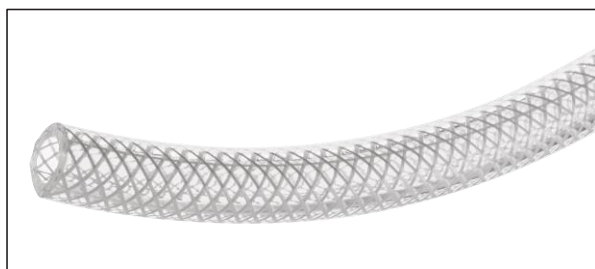
index	internal diameter (d) [mm]	external diameter (D) [mm]	wall thickness [mm]	bending radius [mm]	weight [kg/m]	length of a roll [m]
CX-CPU-05	5	8	1.5	17	0.034	30
CX-CPU-06	6	9	1.5	22	0.040	30
CX-CPU-06X12	6	12	3	19	0.096	30
CX-CPU-08	8	11	1.5	32	0.050	30
CX-CPU-08X14	8	14	3	26	0.117	30
CX-CPU-10	10	16	3	34	0.138	30
CX-CPU-13	13	19	3	48	0.170	30

typical PU hose , 20°C		
d [mm]	D [mm]	working pressure* [bar]
5	8	3.5
6	9	3.1
6	12	4.8
8	11	2.5
8	14	4.1
10	16	3.5
13	19	2.9

Note: indexes highlighted in color - the most common

\* - Indicative value of the recommended working pressure at the 5:1 safety factor.

For hoses without reinforcement, the most frequently manufacturers do not specify the working pressure or the bursting pressure due to the less clear cut nature of hose bursting, preceded by permanent deformation of the hose. The values were calculated on the basis of the Lamé's formula:  $\text{working pressure} = (S/n) \times (D^2 - d^2) / (D^2 + d^2)$ , assuming  $S = 4 \text{ MPa}$  (material stress at permanent deformation) and  $n=5$  (safety factor). These are indicative values for a typical soft polyurethane hose. Use of a hose for a specific working pressure should be preceded by a test under working conditions.



### RPU

#### Polyurethane hose reinforced with a braid

**Internal layer:** transparent polyurethane - polyether  
**Reinforcement:** polyester braid  
**External layer:** transparent polyurethane - polyether  
**Working temperature:** from -30°C to +70°C (temporarily up to +100°C, working pressure depends on the temperature)

Universal flexible high quality polyurethane hose with a braid, manufactured in the UK. Suitable for water, air, oils, fuels, lubricants, chemicals and granules. Stronger hose compared to similar PVC hoses, more able to hold its shape; well resistant to kinking, flexible at low temperatures. Made of the polyurethane - polyether; resistant to hydrolysis and abrasion. It does not contain cadmium, silicone, plasticizers and halogen compounds. In accordance with EU regulations, application to food products is possible after the required migration tests have been carried out with appropriate model fluids simulating the type of food (the material used for the hose complies with FDA 21 CFR 175.105, 177.1680, 177.2600 and WRAS requirements for 23°C water).

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
CX-RPU-06	6.3	11.5	2.6	20	60	22	0.08	30
CX-RPU-10	10	16	3	16	50	37	0.14	30
CX-RPU-13	12.5	18.5	3	15	45	49	0.17	30
CX-RPU-16	16	23	3.5	13	40	65	0.25	30
CX-RPU-19	19	26	3.5	11	35	84	0.28	30
CX-RPU-25	25	33	4	10	30	118	0.42	30

Note: indexes highlighted in color - the most common

Dependence of the bursting pressure and working pressure on the temperature for typical polyurethane (PU) hoses						
temperature	20°C	30°C	40°C	50°C	60°C	70°C
pressure	100%	84%	70%	60%	52%	46%

## Universal polyurethane (PU) hoses



### RAGNO PU

**Universal hose made of PU, TPE and PVC for air, perfect for pneumatic tools**

**Internal layer:** transparent polyurethane (PU)  
**Intermediate layer:** PVC /PU (black)  
**Reinforcement:** polyester braid  
**Internal layer:** TPE /PVC (turquoise)  
**Working temperature:** from -15°C to +60°C  
 (working pressure depends on the temperature)

Very lightweight multi-layer hose with an abrasion and oil-resistant polyurethane internal layer, an intermediate layer and an external layer of thermoplastic and PVC compound. Very flexible, with a small bending radius and without the kinking effect. Resistant to the ozone, fats, oils and slightly aggressive chemicals. Suitable for the compressed air and liquids. Widely used in industry for pneumatic tools, spray gun air and water-based paint, sandblasting, etc. Suitable for mounting on hose reels.

The internal layer is food contact approved - in accordance with EU requirements 1935/2004/EC and 10/2011/EU (simulation fluids A, B and C), 2023/2006/EC (GMP). It is suitable for temporary contact with food (internal layer only) during the food substances transmission process - acc. to conditions set forth in the manufacturer's declaration of conformity (available from Tubes International).

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	working pressure 40°C [bar]	working pressure 60°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
ME-RAGNO-PU-06	6	10	2	20	17	15	60	20	0.065	100
ME-RAGNO-PU-08	8	12	2	20	17	15	60	22	0.085	60
ME-RAGNO-PU-10	10	15	2.5	20	17	15	60	38	0.130	50
ME-RAGNO-PU-13	13	19	3	20	17	15	60	65	0.195	30
ME-RAGNO-PU-16	16	22.5	3.25	20	17	15	60	60	0.250	25

Note: indexes highlighted in color - the most common



*Flexible and soft -  
your friend in the  
workshop -  
RAGNO PU hose.*



**For different types of quick release couplings for air and liquids see "Low Pressure Quick Release Couplings" in the INDUSTRIAL FITTINGS section.**

## General purpose rubber hoses



### MPX 20

**General purpose hose intended to transfer air, water and slightly aggressive chemicals**

**Internal layer:** black EPDM rubber  
**Reinforcement:** textile braid (double braid DN32 and 38)  
**External layer:** black EPDM rubber  
**Working temperature:** from -40°C to +100°C (temporarily up to 120°C).

General purpose, heavy duty and highly flexible rubber discharge hose, designed for air, water and slightly aggressive chemicals. Not suitable for oils, fuels and aromatic hydrocarbons. Can be used for dispersion water-based epoxy and polyurethane paints. Not suitable for cellulose, chlorinated rubber and other paints containing aromatic solvents (e.g., toluene, xylene) or gasoline. When selecting for chemical applications we recommend contacting Tubes International. **Anti-static** internal and external layers ( $R < 10^9 \Omega/m$ ), external layer resistant to ozone, aging and weather conditions.

Note: Information (branding) on the hose: [www.tubes-international.com](http://www.tubes-international.com) PR-MPX 20 DN 19 MULTIPURPOSE HOSE WP 20 BAR BP 80 BAR 2Q/15 - example.

index	internal diameter [mm]	wall thickness [mm]	external diameter [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
SP-MPX20-06	6	3.5	13	20	80	36	0.14	50
SP-MPX20-08	8	3.5	15	20	80	50	0.17	50
SP-MPX20-10	10	3.5	17	20	80	60	0.20	50
SP-MPX20-13	13	4	21	20	80	80	0.29	50
SP-MPX20-16	16	4	24	20	80	100	0.35	50
SP-MPX20-19	19	4.5	28	20	80	114	0.46	50
SP-MPX20-25	25	5	35	20	80	150	0.69	50
SP-MPX20-32	32	6	44	20	80	200	1.05	50
SP-MPX20-38	38	6	50	20	80	230	1.23	50

Note: indexes highlighted in color - the most common



### MPX 20 / P

**MPX hose with quick release couplings, L=10 or 15 m**

**Internal layer:** black EPDM rubber  
**Reinforcement:** textile braid  
**External layer:** black EPDM rubber  
**Working temperature:** from -40°C to +100°C (temporarily up to 120°C).

Pneumatic hose extent - ready-to-use air hose assembly made of MPX20 hose. Complete with a brass Eurostandard DN7.2 socket and plug (that fits typical quick release connections). For general use, in particular for pneumatic tools, where a rubber hose with anti-static properties is required.

index	internal diameter [mm]	external diameter [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	length of the hose [m]	weight of the hose [kg]
SP-MPX20-P-08-10	8	15	20	80	50	10	2.1
SP-MPX20-P-08-15	8	15	20	80	50	15	2.9

Note: indexes highlighted in color - the most common



MPX20/P pneumatic ready-to-use hose assemblies are completed with typical popular Eurostandard DN 7,2 quick release couplings, which fit many pneumatic tools, including: air guns, wheel pump guns or air impact wrenches.

## General purpose rubber hoses



### CODAN 3320

**General purpose hose intended to transfer air, water and slightly aggressive chemicals**

**Internal layer:** black EPDM rubber  
**Reinforcement:** textile braid (PVA - polyvinyl alcohol)  
**External layer:** black EPDM rubber  
**Working temperature:** from -40°C to +95°C

Universal flexible rubber discharge hose designed for air, water and slightly aggressive chemicals. Resistant to acetates and ketones. Not suitable for oils, fuels and aromatic hydrocarbons. Can be used for dispersion water-based epoxy and polyurethane paints. Not suitable for cellulose, chlorinated rubber and other paints containing aromatic solvents (e.g., toluene, xylene) or gasoline. When selecting for chemical applications we recommend contacting Tubes International. Heavy duty structure hose, offering low elongation under pressure. Suitable for use on hose reels. **Electrically conductive** internal layer ( $R < 10^6 \Omega$ , EN ISO 8031), ozone and weather resistant external layer.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
CO-3320-06	6	13	3.5	20	60	40	0.15	50
CO-3320-08	8	15	3.5	20	60	50	0.18	50
CO-3320-10	10	17	3.5	20	60	60	0.21	50
CO-3320-13	13	21	4	20	60	80	0.3	50
CO-3320-16	16	24	4	20	60	100	0.35	50
CO-3320-19	19	28	4.5	20	60	115	0.47	50
CO-3320-25	25	35	5	20	60	150	0.67	50



### MPX 20 W

**Hose for air, water and slightly aggressive chemicals - general purpose**

**Internal layer:** black EPDM rubber  
**Reinforcement:** polyester braid (DN6 ÷ DN25)  
 double polyester braid (DN32 ÷ DN38)  
**External layer:** black EPDM rubber  
**Working temperature:** from -40°C to +95°C

Heavy duty and flexible rubber discharge hose, designed for water, paint, slightly aggressive chemicals and air. Can be used for dispersion water-based epoxy and polyurethane paints. Not suitable for cellulose, chlorinated rubber and other paints containing aromatic solvents (e.g., toluene, xylene) or gasoline. Not suitable for oils, fuels and aromatic hydrocarbons. When selecting for chemical applications we recommend contacting Tubes International. **Conductive** internal and external layers ( $R < 10^9 \Omega/m$ ), external layer resistant to ozone, aging and weather conditions.

Note: Information (branding) on the hose: [www.tubes-international.com](http://www.tubes-international.com) PR-MPX20 MULTIPURPOSE HOSE WP 20 BAR BP 80 BAR - example.

index	internal diameter [mm]	wall thickness [mm]	external diameter [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
PR-MPX20-06W	6	3.5	13	20	80	40	0.150	50
PR-MPX20-08W	8	3.5	15	20	80	45	0.180	50
PR-MPX20-10W	10	3.5	17	20	80	55	0.210	50
PR-MPX20-13W	13	4	21	20	80	70	0.250	50
PR-MPX20-16W	16	4	24	20	80	80	0.310	50
PR-MPX20-19W	19	4.5	28	20	80	95	0.470	50
PR-MPX20-25W	25	5	35	20	80	155	0.660	50
PR-MPX20-32W	32	6	44	20	80	195	0.950	50
PR-MPX20-38W	38	7.5	53	20	80	230	1.200	50

Note: indexes highlighted in color - the most common



## General purpose rubber hoses



### NIPLAFLEX®

**Flexible and elastic universal rubber hose - oil resistant**

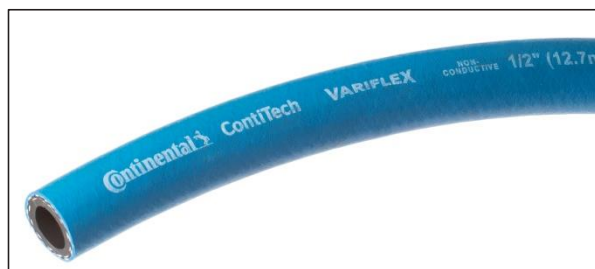
**Internal layer:** black mixture NBR/PU/PVC  
**Reinforcement:** polyester braid  
**External layer:** black NBR/PVC mixture  
**Working temperature:** from -20°C to +70°C

Multi-functional, lightweight, extremely flexible and elastic oil and gasoline resistant hose. Suitable for air, water, oils, fuels, lubricants, chemicals (e.g., light acids and bases), pesticides, fertilizers, etc. Smooth external layer resistant to weather conditions, aging, ozone, UV radiation; non-staining. Popular and widely used in the industry, construction, agriculture and auto repair workshops.



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
BG-NIPLAFLEX-06	6	12	3	25	75	40	0.115	100
BG-NIPLAFLEX-08	8	15	3.5	25	75	50	0.170	100
BG-NIPLAFLEX-09	9	16	3.5	25	75	55	0.185	100
BG-NIPLAFLEX-10	10	17	3.5	25	75	60	0.200	100
BG-NIPLAFLEX-13	13	21	4	25	75	80	0.290	100
BG-NIPLAFLEX-19	19	28	4.5	25	75	110	0.450	50
BG-NIPLAFLEX-25	25	36	5.5	25	75	160	0.715	50

Note: indexes highlighted in color - the most common



### VARIFLEX™ 300

**General purpose strong rubber hose perfect for reels**

**Internal layer:** black NBR rubber  
**Reinforcement:** synthetic braid  
**External layer:** blue rubber mixture Chemivic® (NBR/PVC)  
**Working temperature:** from -29°C to +88°C

High quality general purpose hose for air, hot and cold water, oil, hydraulic fluids, slightly aggressive chemicals, diluted acids and cleaning fluids. Heavy duty and flexible, kink and torsion resistant. Non-staining external layer resistant to weather conditions, abrasion and oil. Due to its high strength and low stretch it is particularly recommended for hose reels. The hose is non-conductive (NON CONDUCTIVE, R > 1 MΩ/inch of hose length at 1000 V DC).

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
GY-VARIFLEX300-06BL	6.4	13.7	3.65	21	84	50	0.210	152.4
GY-VARIFLEX300-08BL	7.9	16.3	4.2	21	84	64	0.270	152.4
GY-VARIFLEX300-10BL	9.5	17.5	4	21	84	80	0.280	152.4
GY-VARIFLEX300-13BL	12.7	21.8	4.55	21	84	100	0.390	152.4
GY-VARIFLEX300-16R*	15.9	25.9	5	21	84	130	0.490	152.4
GY-VARIFLEX300-19BL	19.0	30.2	5.6	21	84	160	0.630	152.4
GY-VARIFLEX300-25BL	25.4	38.1	6.5	21	84	200	0.920	137.1

Note: indexes highlighted in color - the most common ; \* - red external layer





**General purpose rubber hoses**



**GORILLA®**

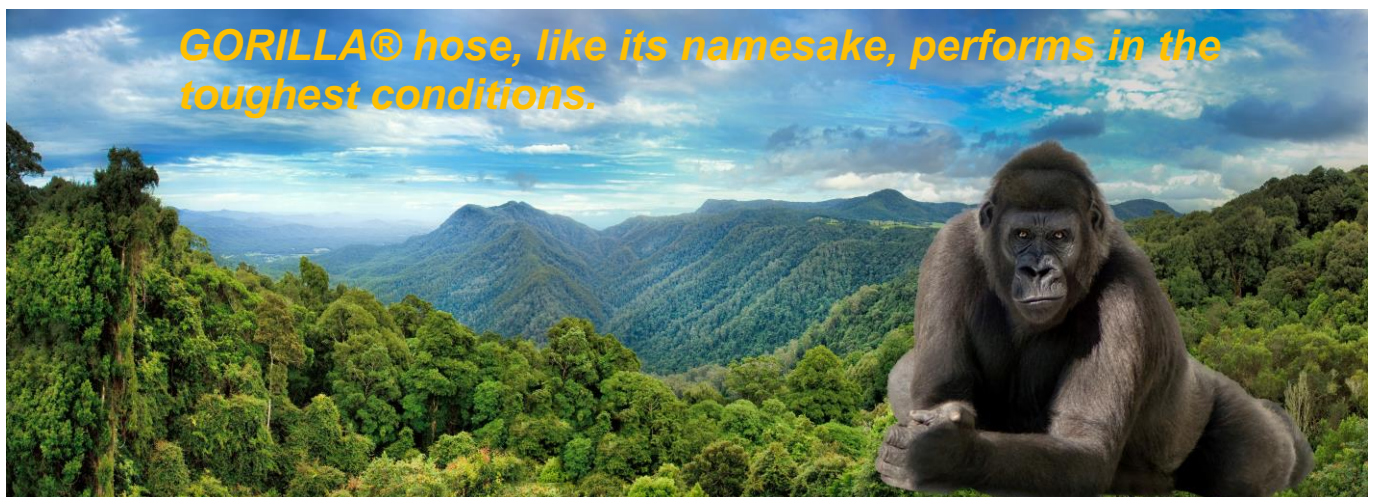
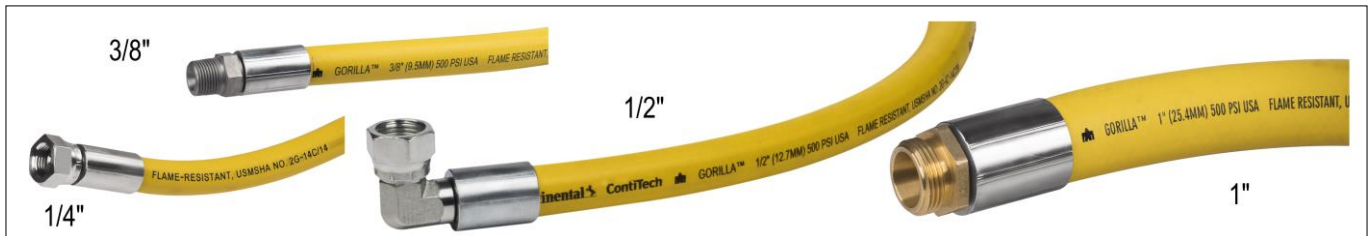
**Heavy duty, abrasion-resistant general purpose hose**

- Internal layer:** Black NBR rubber
- Reinforcement:** aramid braid (for 2" synthetic braid)
- External layer:** yellow Carbryn® rubber (XNBR, carboxylated NBR)
- Working temperature:** from -29°C to +88°C

Top quality, highly flexible, torsion and kink resistant general purpose industrial hose. Used in the industry, construction, agriculture, quarries, mining and road construction, oil and shipbuilding. The internal layer is resistant to oil, grease, slightly aggressive chemicals, air, kerosene, cold and hot water. The external layer offers very good abrasion resistance and resistance to animal fats and oils. Due to its high expansion rate and low stretch it is particularly recommended for hose reels. External flame resistance meets requirements set forth in with MSHA standard 2G-IC-14C/39. Non-conductive (R > 1 MΩ/inch of hose length at 1000 V DC).

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]	length of a roll [m]
GY-GORILLA-06	6.4	15.5	4.55	35	140	48	0.250	152.4
GY-GORILLA-08	7.9	17.5	4.8	35	140	64	0.300	152.4
GY-GORILLA-10	9.5	18.6	4.55	35	140	80	0.330	152.4
GY-GORILLA-13	12.7	22.6	4.95	35	140	104	0.420	152.4
GY-GORILLA-16	15.9	26.9	5.5	35	140	128	0.520	152.4
GY-GORILLA-19	19.1	30.2	5.55	35	140	152	0.610	152.4
GY-GORILLA-25	25.4	38.1	6.35	35	140	175	0.860	137.4
GY-GORILLA-32	31.8	45.2	6.7	35	140	256	1.180	122
GY-GORILLA-38	38.1	51.8	6.9	35	140	304	1.270	91.5
GY-GORILLA-51	51	66.5	7.85	35	140	400	1.760	30.5

Note: indexes highlighted in color - the most common



**GORILLA® hose, like its namesake, performs in the toughest conditions.**