

# HOSES FOR TRANSFER OF COOLING WATER AND LIQUIDS USED BY INTERNAL COMBUSTION ENGINES



## Textile Reinforced Hoses

**HOSE LINING:** Synthetic rubber based compound resistant to water, cooling liquids and higher temperatures.

**MIDDLE LAYER:** Textile reinforcement made of Rayon or Nylon cord especially resistant to higher fluid pressures.

**HOSE COVER:** Synthetic rubber based compound resistant to atmospheric influences.

**OPERATING TEMPERATURE:** -50°C to +120°C

**SHAPE:** Straight or shaped hose

**LENGTH:** The maximum length of a straight hose is 6m.

Bore Ø (mm):	Wall thickness (mm):	Hose cracking pressure min (bar)
10-20	4+0,5	15
20-30	4,5+0,5	10
30-40	4,5+0,5	10
40-50	5,0+0,5	6



## All Rubber Hoses

They are manufactured of the synthetic rubber based compound resistant to water, cooling liquids and atmospheric influences. Operating temperature: -50°C to +120°C; Shape: straight or shaped hose;

Length: the maximum length of straight hose is 6m; Diameter: Ø4-Ø20mm; Wall thickness: 1,5-8,0mm; Static pressure: in service 1,5 bars; Hose cracking pressure (min): 4,5 bars.

**AIR HOSES WITH POSSIBLE DISPERSION OF MINERAL OILS**  
Manufactured of synthetic rubber based compound resistant to oils, greases and atmospheric influences at higher temperatures.

Operating temperature: -35°C to +125°C; Shape: straight hose-diameter Ø4-Ø60mm, and shaped hose-diameter Ø4-Ø100mm.

Hose length: maximum length of straight hose is 6m; Wall thickness: 1,5-8,0mm; Static pressure: in service 1,5 bars; Hose cracking pressure (min): 4,5 bars.

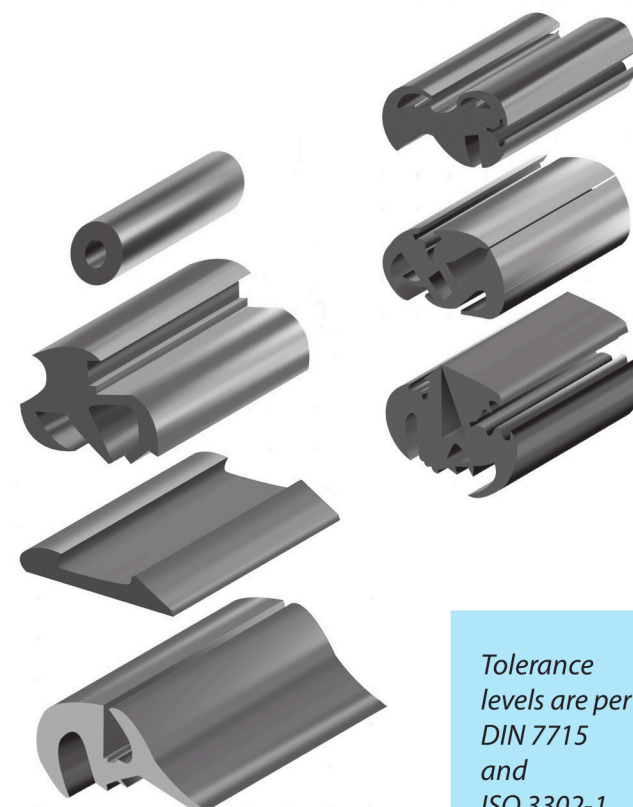
Quality, construction and sizes with tolerances as per customer's technical requirements.

## Homogeneous Rubber Profiles

Rubber profiles of various cross-sections, from different quality raw materials, as required by the construction, automotive, machine, chemical, textile industries...

Based on application, function or customer requirements, rubber profiles are made of EPDM, NR, SBR, BR, CR, or NBR rubber or a blend of these. The length and packaging of the rubber profiles depend on customer requirements.

Rubber quality is per DIN 7863, TU FIAT, ITD and UIC standards.



Tolerance levels are per DIN 7715 and ISO 3302-1 standards.

## Flexi Hoses

Flexible hoses are made of cured mixture based on elastomer with textile reinforcement. A steel spring gives a special mechanical and elastic characteristic to these hoses, and it is because of this spring that the hose can bend in all directions, keeping the same cross section. The material has agents for protection from heat ageing, and it is resistant to an occasional (short) contact with oil.

Basic elastomer is butadiene-styrene.  
Working pressure is 3,4 bars.  
Working temperature interval:  
from -35°C do +100°C  
Hardness: Sh 60°

Hoses under pressure don't change their shape in the part where the spring is, while there is a partial extension in the collar at the pressure of 7 bars, and that's why manufacturers recommendation is to build-in hoses by pulling the hose over appropriate connections to the collar end (in the whole length of the collar).

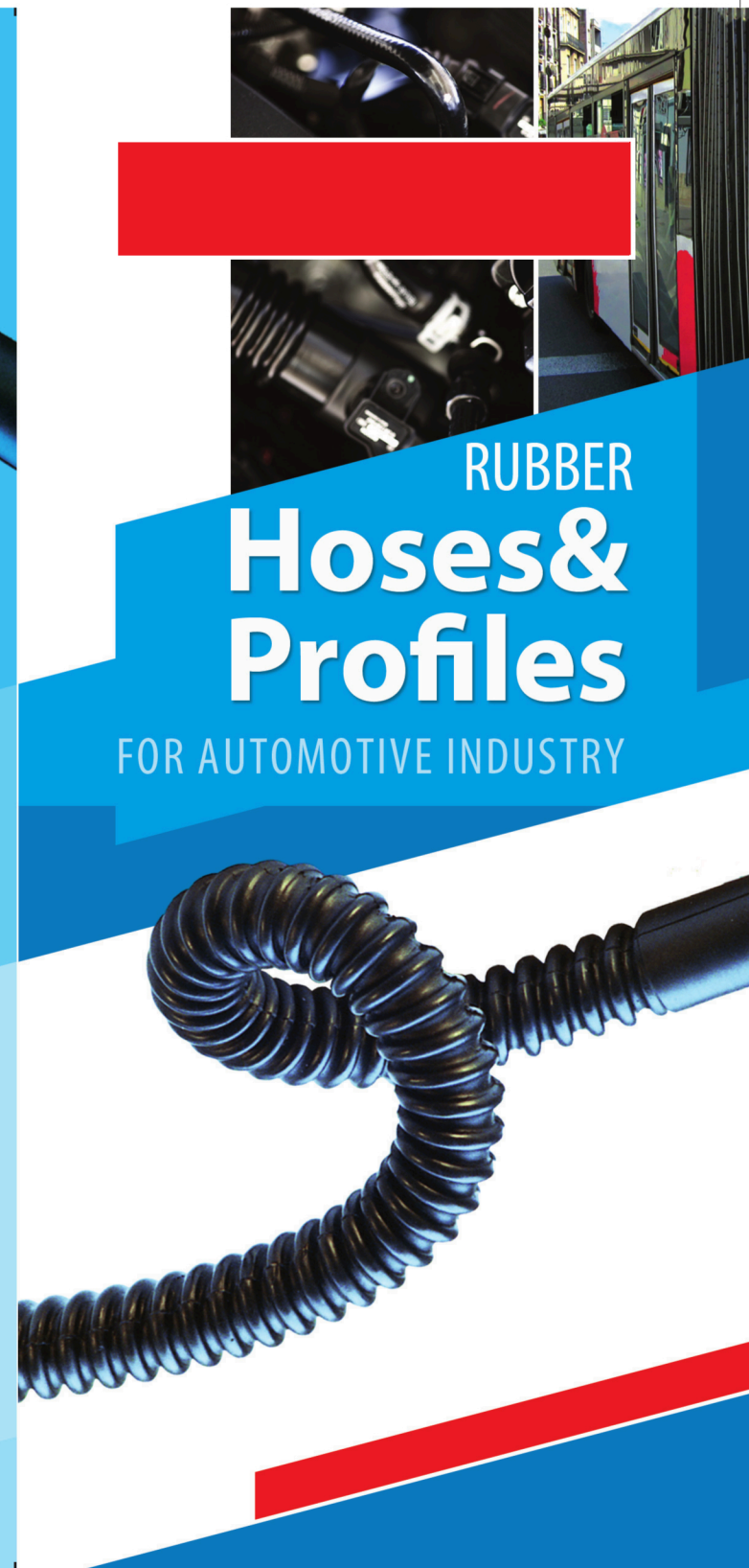
The hoses can undergo to vacuum of -0,8 bars, between two rubber layers with steel spring of great strength.

Hoses are made in the sizes: Ø25mm to Ø60mm and lengths L= 300 mm to L= 750mm but it is necessary to manufacture corresponding tools for those sizes witch we don't have in our production program. For that purpose, the customer should send a request for an offer for the purpose of possible manufacture of necessary tools, if the customer agrees with the product price. The hose colour is black.

Application: some of the possible applications are in industry or in households for vacuum cleaning, air-conditions( air flow), for ventilation of air drawing out, for air flow or water flow, for the flow of liquids for motor cooling in car industry, etc.



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