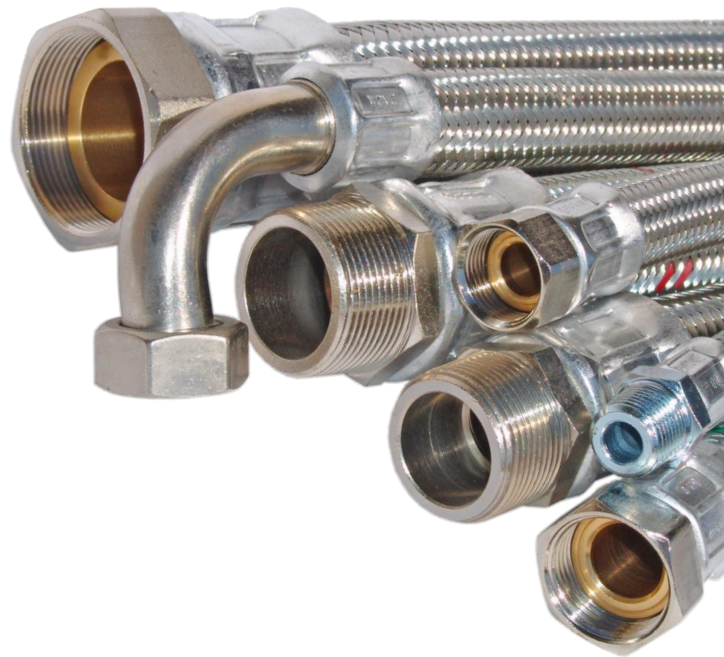


Ticom GmbH
 Bachstrasse 41
 CH 8912 Obfelden
 Tel. ++41 44 763 40 10
 Fax ++41 44 763 40 19
 www.ticom.ch / info@ticom.ch

for heating, ventilating, air-con / DN10 - DN70


Highlights

- Production of any desired execution and length on a daily base (DN15 - DN32)
- Absorbs vibration, noise, pipe expansions and differences in pipe-runs
- 5 years long-term guarantee

Application

In heating and ventilating systems, for connection of heat pumps and other equipment or piping systems etc. Absorption of body noise and vibration transfers, compensation of pipe expansion and for differences in pipe-runs. In air-conditioning system when expecting condensation, TICOINOX stainless steel braided hoses must be used. Customary water additives and antifreeze on ethylene and propylene base can be used. The rubber quality is not resistant to mineral oils. Not approved for gas.

Flat gasket

We provide you with a flat gasket for each internal thread 3/8" to 2"



Flexible armored hoses customized length / dimensions / executions 3/8" DN10 to 3" DN70

dimensions	option	delivery time
1/2" DN15 to 1 1/4" DN32	any desired option	immediately (production on a daily base)
3/8" DN10 and 1 1/2" DN40 to 3" DN70	any desired option (see below „available connections“)	approx. 3 weeks delivery time

Various options such as oxygen diffusion-resistant armored hoses (3/8" DN10 - 2" DN50), drinking water approved armored hoses (3/8" DN10 - 1 1/4" DN32) or NBR armored hoses suitable for oil, diesel, etc. on request.

Flexible armored hoses standard executions from stock Braid galvanized steel or inox, 1/2" DN15 to 2" DN50

dimensions	standard-length [mm]	connection options (selectable)
1/2" DN15 to 1 1/4" DN32	300, 500, 700, 1000, 1250, 1500	FAK x LIGE
1 1/2" DN40 and 2" DN50	300, 500, 700, 1000	LIGE x LIGE FAK x FAK

(Article-numbers of standard armored hoses see price list)

Available connections

FAK		3/8" - 3"	Fixed male thread, conical
LIGE		3/8" - 3"	Loose female thread. Flat gasket included (up to 2" DN50).
LIBO		3/8" - 1 1/4"	Loose female thread with elbow. Flat gasket included (up to 2" DN50). For combination LIBO / LIBO the arrangement of the elbows must be defined.



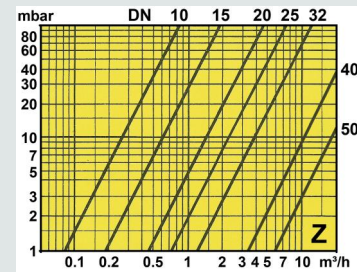
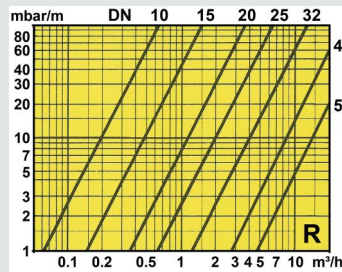
Technical data	TICOFLEX (galvanized steel)	TICOINOX (stainless steel)
Application	heating, ventilating	heating, ventilating, air-con
Temperature range	0°C to +100°C	-20°C to +100°C
Dimensions	3/8" DN10 - 3" DN70	
Max. operating pressure	3/8" DN10 - 1/2" DN15: 15 bar 3/4" DN20 - 1 1/4" DN32: 10 bar 1 1/2" DN40 - 3" DN70: 6 bar	
Materials		
Braiding	steel AISI 1008	stainless steel AISI 304
Rubber hose	EPDM E101 (norm UNI 9028)	
Connections	steel galvanized (or brass)	brass nickel plated

Dimensions of hose		
Nominal size	Ø [mm] outside	Ø [mm] inside
DN10 / 3/8"	15	10
DN15 / 1/2"	21	15
DN20 / 3/4"	28	20
DN25 / 1"	34	25
DN32 / 1 1/4"	44	32
DN40 / 1 1/2"	54	40
DN50 / 2"	64	50
DN60 / 2 1/2"	74	60
DN70 / 3"	84	70

Calculation of pressure loss Δp

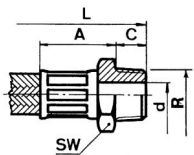
Pressure loss of a straight hose: total of the pressure losses in the hose and in its connection. The pressure loss in bent hoses is higher, depending of the radius of bending.

$$\text{Formula: } \Delta p = (R \times L) + Z \text{ (mbar)}$$



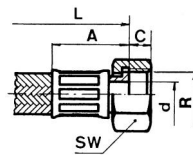
R = pressure loss per 1 m of hose
 L = length of hose in mm
 Z = pressure loss of 2 connections valid for FAK and LIGE. When using LIBO connections the value Z must be adjusted by the following factor:
 one LIBO connection = factor 1,5 x Z
 two LIBO connections = factor 3 x Z

Sizes of the connections



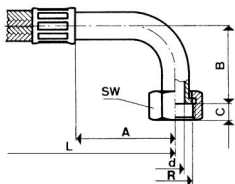
FAK (fixed male thread, conical)

DN	R	Ø d [mm]	C [mm]	SW [mm]
DN15	1/2"	11	17	24
DN20	3/4"	15	17	27
DN25	1"	20	19	34
DN32	1 1/4"	26	24	42
DN40	1 1/2"	31	24	50
DN50	2"	41	25	60



LIGE (loose female thread)

DN	R	Ø d [mm]	C [mm]	SW [mm]
DN15	1/2"	11	9	24
DN20	3/4"	15	11	30
DN25	1"	20	12	37
DN32	1 1/4"	26	13	46
DN40	1 1/2"	32	11	51
DN50	2"	42	15	66



LIBO (loose female thread with elbow 90°)

DN	R	Ø d [mm]	C [mm]	A [mm]	B [mm]	SW [mm]
DN15	1/2"	11	9	40	40	24
DN20	3/4"	15	9	40	35	30
DN25	1"	20	12	40	45	37
DN32	1 1/4"	29	12	50	50	46

⚠ Installation instructions

Please observe notes in separate "Installation instructions"!
 Tension and torsion when connecting and in operation should be avoided.
 Before installing check for proper compression of the connections

Minimum bending radius: approx. 3,5 x outside diameter of hose

