

TECHNICAL DATASHEET

PA12 HR RIGID TUBE Ø 5 MM X 9,52 MM (3/8")

General Description

Features

- Polyamide 12 HL flexible tubing, light and heat stabilized;
- Produced with raw materials designed to meet DIN 73378/74324 standards.

Applications





Industrial automation; Vacuum equipment; Lubrication; Misiting; Machine tool; Chemical resistance; Hydrolysis resistance;

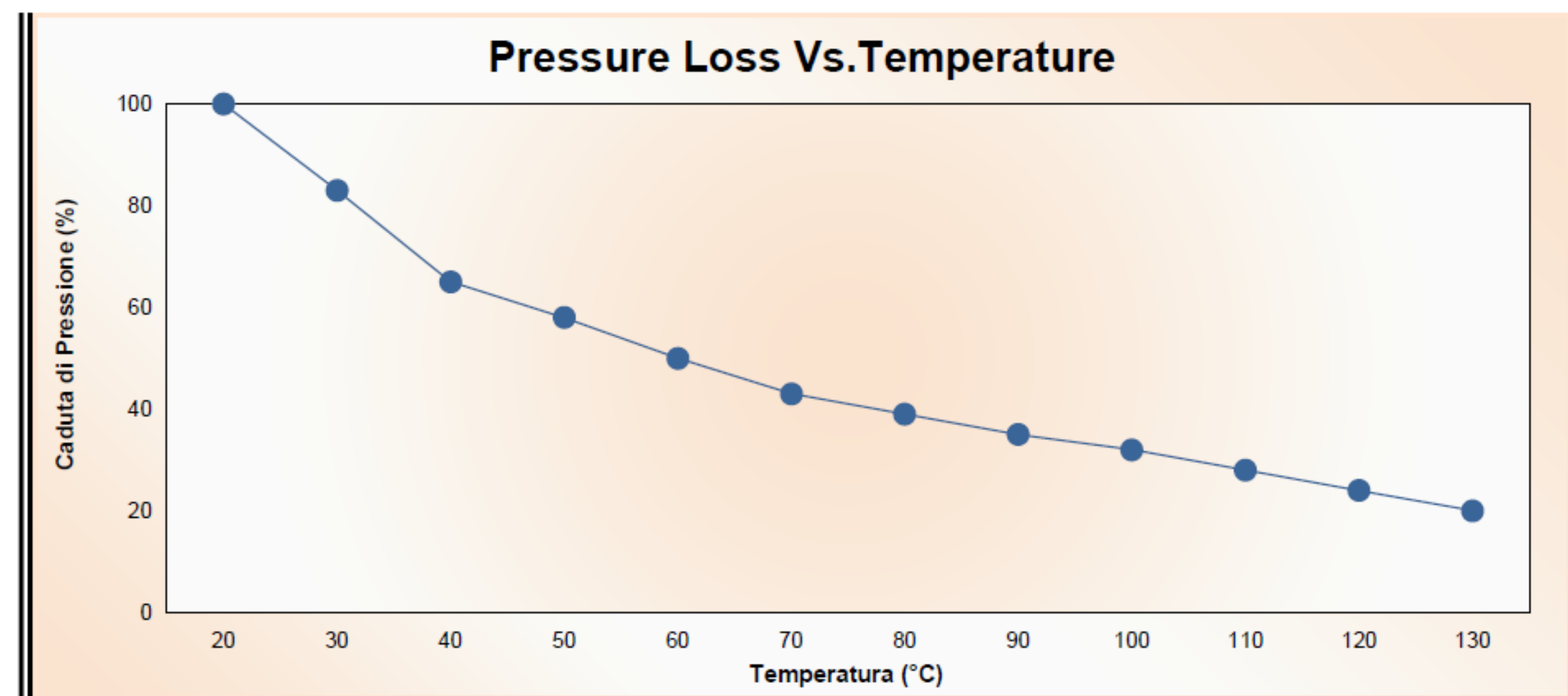
Operating temperature




From -40°C to 80°C

Item Specification

Tests made in a lab conditioned at 23°C, 50 % R.H. for 24 hours

	METHOD	UM		Tolerance
	Inner diameter (iØ)	mm	5	
	Outer diameter (oØ)	mm	9.52	± 0.07
	Wall thickness	mm	2.26	± 0.07
	Minimum bending radius	mm	35	± 4
	Operating pressure (23°C - SF 3:1)	BAR	87	± 9






	Operating pressure (23°C - SF 4:1)	ISO 7751:2016	BAR	65	± 7
	Unit net weight		kg/m	0.0531	± 0.003
	Print	*MB* PA12 HR TIPO "0" TYPE "0" Ø 9,52X5 PA12 HL			

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Material Properties

<i>Mechanical features</i>		<i>METHOD</i>	<i>UM</i>	<i>Tolerance</i>
	<i>Hardness</i>	78		
<i>Thermal features</i>		<i>METHOD</i>	<i>UM</i>	<i>Tolerance</i>
	<i>Melting point</i>	ISO 11357	°C	178
<i>Generic features</i>		<i>METHOD</i>	<i>UM</i>	<i>Tolerance</i>
	<i>Humidity absorption</i>	0,7		
	<i>Density</i>	1,02		

Additional Information

<i>Packaging</i>	Standard coils are packed in plastic film; plastic, carton board, plywood or wooden reels available on request (refer to the dedicated file in order to choose the best solution).
<i>Storage conditions</i>	Keep the product stored in a range of temperature from +5°C to +35°C, far away from any sunlit area, heat or ultraviolet light source.
<i>Shelf Life</i>	If stored in optimal conditions, approximately six months from delivery date in original film packaging. Approximately twelve months from delivery date in original carton box packaging.
<i>Chemical resistance</i>	Polyamide 12 HR type "0" offers an ideal balance between the resistance of polyamides to grease and hydrocarbons and the resistance to some acids, bases and salts of polyolefines. The excellent chemical resistance of PA 12 HL is reflected both in high dimensional stability under harsh conditions and in the non-degradation of the polymer matrix. It features good resistance to oils, hydraulic fluids, and petroleum products. In general it's not resistant to many acids, strong bases, oxidizing agents and chlorine based products, but its resistance varies with the chemical group involved, concentration and temperature. The same applies to mixtures of chemical that alone do not attack PA 12, but when mixed together can produce synergistic reactions. For more detailed information please refer to our "chemical resistance chart" on our catalogue.
<i>Weathering</i>	Polyamide 12 is particularly resistant to degradation of the combined effect of the sun's rays and the rain water performing a good endurance to ageing (stabilized to light, best performance on black colored hoses when used in sunlit areas and in close proximity to high ultraviolet light sources)