



Hydynamic high pressure hoses
Dimensions 4.0 x 8.6 d - 6.3 x 11.3 d

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1. Scope

This Technical Delivery Specification applies to Hydynamic high pressure hoses,
dimension 4.0 x 8.6 d. + 6.3 x 11.3 d

2. Designation

High pressure hoses DN4 - DN6 in various roll lengths (0116-....-....series)

3. Material / material properties

Inner layer: (Polyamide 6, plasticized)

Outer layer: (Polyurethane, with microbial stabilization)

	Inner layer	Outer layer
Tensile strength DIN EN ISO 527	> 30 N/mm ²	> 18 N/mm ²
Elongation at break DIN EN ISO 527	> 180%	> 380%
Hardness, Shore DIN EN ISO 868	D 60 ± 3	A 90 ± 3

Temperature range for use: -40°C to +100°C

In case the medium to be pumped is „lubricating grease with corrosion
protection additives“: max. +70°C

The materials used are halogen-free (DIN VDE 0472-815)



4. Pressure reinforcement / compressive strength / bending radius

Burst pressure (EN ISO 1402, Pressure build-up: 30 s)			Admissible bending radius 20°C	Recommended operating pressure*		
20°C	(bar)	60°C		static	bar	dynamic
> 840		> 460	> 20 mm	max. 280		max. 210

Technically correct diagonal reinforcement in high-resistant polyester, bonded with inner hose.

*Usual safety factors: static pressure load: 3, dynamic pressure load: 4.

5. Dimensions and tolerances (mm) e.g. 0116-0003-0400

Nominal dimensions:	4.0 x 8.6 d (internal-ø x external-ø)
Internal-ø:	3.90 – 4.10
External-ø:	8.50 – 8.75
Wall thickness eccentricity:	max. 0.35

5. Dimensions and tolerances (mm) e.g. 0116-0003-0600

Nominal dimensions:	6.3 x 11.3 d (internal-ø x external-ø)
Internal-ø:	6.20 – 6.50
External-ø:	11.1 – 11.5
Wall thickness eccentricity:	max. 0.35

6. Colour

Inner layer:	Natural
Outer layer:	Black
Reinforcement:	Raw white
Printing:	White HH