



TECHNICAL SPECIFICATION

HYDYNAMIC HP HOSES DN4 – DN6 UNFILLED

1. Scope

0116-0003-0400 / 4.0X8.6
0116-0003-0600 / 6.35X11.3

2. Material / material properties

Inner layer: (Polyamide 6, plasticized)
Outer layer: (Polyurethane, with microbial stabilization)

0116-0003-0400	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

0116-0003-0600	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)



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3. 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.

4. Dimensions and tolerances (mm) (0116-0003-0400)

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

Dimensions and tolerances (mm) (0116-0003-0600)

Nominal dimensions: 6.35 x 11.3 d (internal x external)
 Internal- ϕ : 6.20 – 6.50
 External- ϕ : 11.1 – 11.5
 Wall thickness eccentricity: max. 0.35

5. Color

Inner tube: Natural
 Sheathing: Black
 Reinforcement: Raw white
 Printing: White