



# TECHNICAL SPECIFICATION

## HYDYNAMIC HP HOSES DN4 – DN6 GREASE FILLED

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### 1. Scope

0116-0002-0400 / 4.0X8.6  
0116-0001-0600 / 6.35X11.3

### 2. Material / material properties

Inner layer: (Polyamide 6, plasticized)

Outer layer: (Polyurethane, with microbial stabilization)

<b>0116-0002-0400</b>	<b>Inner layer</b>	<b>Outer layer</b>
Tensile strength DIN EN ISO 527	> 30 N/mm <sup>2</sup>	> 18 N/mm <sup>2</sup>
Elongation at break DIN EN ISO 527	> 180%	> 380%
Hardness, Shore DIN EN ISO 868	D 60 ± 3	A 90 ± 3

<b>0116-0001-0600</b>	<b>Inner layer</b>	<b>Outer layer</b>
Tensile strength DIN EN ISO 527	> 30 N/mm <sup>2</sup>	> 18 N/mm <sup>2</sup>
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) (0116-0002-0400)

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

### Dimensions and tolerances (mm) (0116-0001-0600)

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

### 5. Color

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



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## Product description

### EP multi-purpose grease NLGI 2

EP 2 greases are multipurpose extreme pressure greases containing highly refined mineral base oils, lithium thickener, EP additives and rust and oxidation inhibitors. It is suitable for use in many industrial, commercial and marine grease applications.

### Customer benefits

EP greases deliver value through:

- Good water resistance

Resistance to washout of bearings.

- Good corrosion protection

Inhibited to protect bearing surfaces.

- Good oxidation stability

Helps to support long life in storage and in use.

- Simplified lubrication

One grease designed to satisfy many different industrial grease requirements.

- Low oil separation tendency

Recommended for use in typical centralized lubrication systems.

## Applications

- EP greases have high load-carrying capacity and, therefore, provide good protection of lubricated parts against wear. They provide good lubrication in the presence of water, protect bearing surfaces against corrosion, and have excellent resistance to oxidation, which supports long life in storage and in use.
- EP greases are work stable. They resist separation or throw out from antifriction bearings. They have low oil bleeding tendency under pressure and are pumpable at low temperatures.
- EP greases are suitable for use in typical centralized lubrication systems. They can satisfy a wide range of industrial and marine grease applications.

Typical applications include:

- General Machinery - plain, antifriction, roller, and needle bearings
- Construction equipment
- Conveyors and run-out rolls
- Crusher, shaker, or classifier screen bearings
- Chassis lubrication
- Deck equipment



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## Approvals, performance and recommendations

### Performance

	DIN 51 502	ISO 6743-09	Operating temperature
EP 2	KP 2 K-30	ISO-L-XCCEB 2	-30°C up to 120°C with short periods up to 140°C

Typical test data		
Test	Test Methods	Results
NLGI Grade	DIN 51 818	2
<b>Shelf Life: 36 months from date of filling indicated on the product label.</b>		
Thickener type	DIN 51 814	Lithium
Dropping Point, °C	ISO 2176	>200
Oil type	-	Mineral
Base oil viscosity at 40°C, mm <sup>2</sup> /s	DIN 51 562	200
Penetration worked, 0.1 mm	ISO 2137	265-295
Copper Corrosion 48h/120°C	DIN 51 811	1
Emcor corrosion distilled water	ISO 11007	0/0
Water resistance static	DIN 51 807/1	1-90
Four Ball weld load, N	DIN 51 350/4	2600
Four Ball wear scar, 1min/1000N, mm	DIN 51 350/5	0.5