



Technical data sheet

High pressure hose 100-001/100-002

1. Area of Application

Those technical delivery specification is in essence of contract and applies to our high pressure hose 100-001/100-002, dimensions 4,0 x 8,6 d.

It defines and limits the scopes of supply and services.

2. Description

high pressure hose DN 4,
 order no. 100-001 + 100-002.

3. Material / Performance

inner tube: Thermopl. Polyamid 6
 casing: Thermopl. Polyurethan, microbial stabilization

		inner tube	casing
tear strength	DIN EN ISO 527	> 30 N/mm ²	> 18 N/mm ²
elongation at break	DIN EN ISO 527	> 50 %	> 380 %
hardness, shore	DIN EN ISO 868	D 60+/- 3	A 88 +/- 3

temperature using limit: - 30° to + 80 °
 For mediums to be pumped with "grease with corrosion protection additives":
 max. 60°C

4. Pressure Reinforcement / Pressure Strength / Bending Radius

bursting pressure (EN ISO 1402, pressurisation: 60 s)			allowed bending radius at 20°C	operating pressure reference		
20°C	(bar)	60°C		statistically	(bar)	dynamically
> 840		> 450	> 20 mm	Max. 280		Max. 210

Technically correct diagonal reinforcement of polyester, high-strength bonded to the inner tube.



5. Sizes and Tolerances in mm

nominal size	4,0 x 8,6 d (internal x external)
inner diameter	3,90 - 4,10
external diameter	8,50 – 8,75
wall thickness eccentricity	max. 0,40

6. Colour

inner tube	nature
casing	black
reinforcement	white
adhesive	green-transparent
printing	white

7. Hose print and hose appearance

according to drawing

8. Design / Packaging / Labeling

8.1 50 meter coil (core diameter approx. 50 cm) with neutral label
bulk in box or pallet.
Short length ex 15 m will be subdivided in units of
15-35 m and > 35 m and packed separately.

8.2 500 m-coils (sporadic the coils may exist of maximum three parts)
(vereinzelt dürfen die Bunde aus max. 3 Teillängen
bestehen.

Inner core diameter 280 mm

Several coils packed on pallet

Divergent delivery is always possible on request.

9. Specials

The pressure reinforcement is glued with the inner hose.



10. Production Control

The production of the high pressure hose is subject to constant control, which refers to visual, dimensional and functional test criteria. In order to guarantee the requested pressure values one test specimen is taken per approx. 2,000 m production quantity for determination of burst pressure.

The delivery takes only place once test criteria are met.

The quality control does not comprise inspection of the quality of hose fittings or keying to be done.

11. Function / Approval

The customer has determined suitability for the specific application by way of appropriate functional tests. Acceptance by the customer in writing is proof for us of the proper functional tests. The guarantee is limited to series supplies in accordance with this specification.

By return of legally signed TDS/drawing or by placing a production order or by approval of our samples the approval is effective. Further guarantees are not assumed.

As the responsible supplier, FRITSCH reserves the right to carry out modifications or deviations of the products under contract, for purposes of improvement and further development; whereas there will be no modifications of the specifications agreed herein.

If flammable gases are passed through the tube, we ask you to contact our sales department in order to clarify the safety requirements. In particular case it requires sometimes the attention of special instructions for such an application.

Checked

Place, date

Customer signature / company stamp