

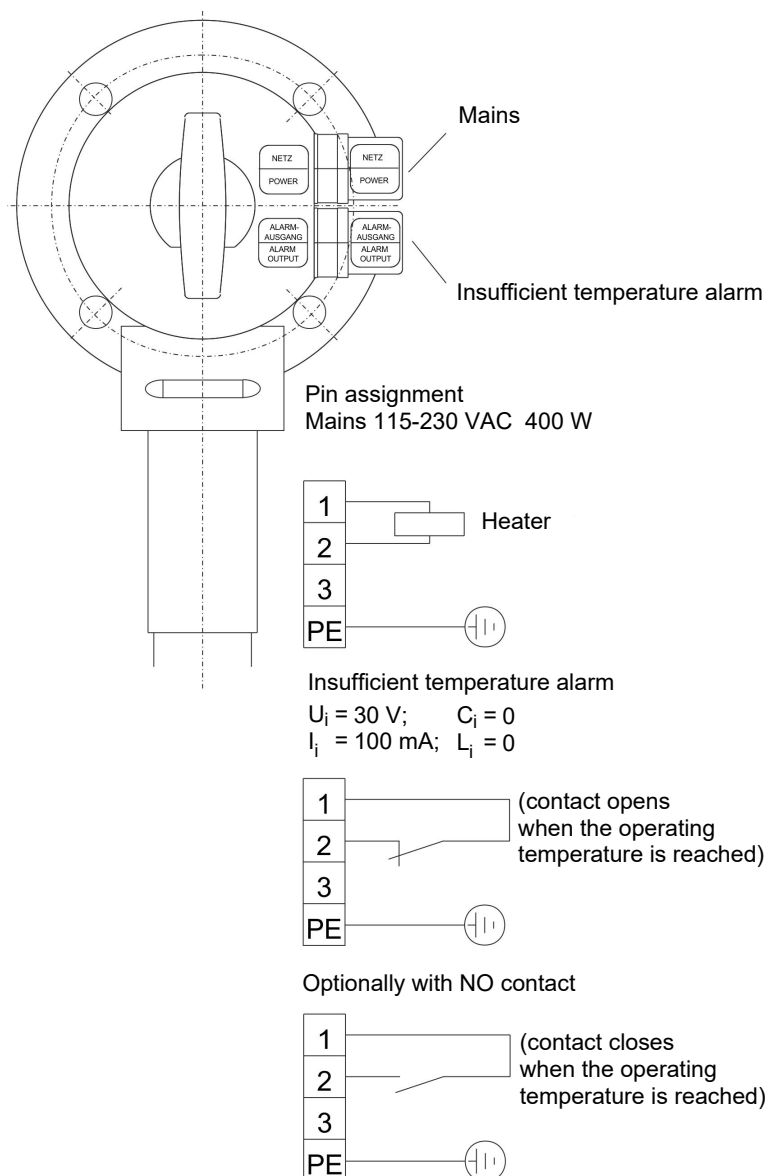
9 Appendices

9.1 Technical Data

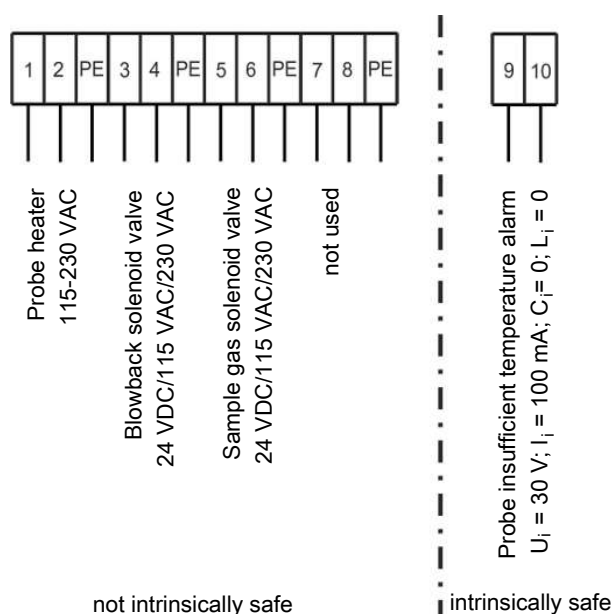
Gas Probe Technical Data

Ambient temperature without accessories:	-20 to +80 °C	
Ambient temperature for accessories:	Component	Ambient temperature range
	Junction box:	-20 °C < T _{amb} < +70 °C
Max. gas inlet temperature:	+195 °C (T3)/+130 °C (T4)	
Self-regulating heater:	+130 °C (T3)/+70 °C (T4)	
Low temperature alarm:	Contact switches at < 95 °C (T3) or < 50 °C (T4); Simple electrical equipment according to EN 60079-11; U _i 30 V, I _i = 100 mA; C _i /L _i ~ 0	
Electrical data:	230 V, 2.0 A, 50/60 Hz 115 V, 3.8 A, 50/60 Hz	
Max. operating pressure:	6 bar	
Material:	1.4571	
Parts in contact with media:	Seals: Graphite/1.4404 and see filter	
Markings:	ATEX:  II 3G Ex ec ic mb IIC T3/T4 Gc IECEx: Ex ec ic mb IIC T3/T4 Gc	

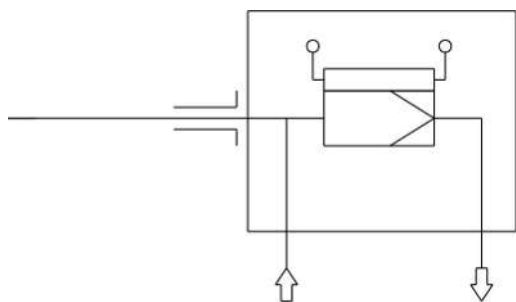
9.2 Connection Diagram



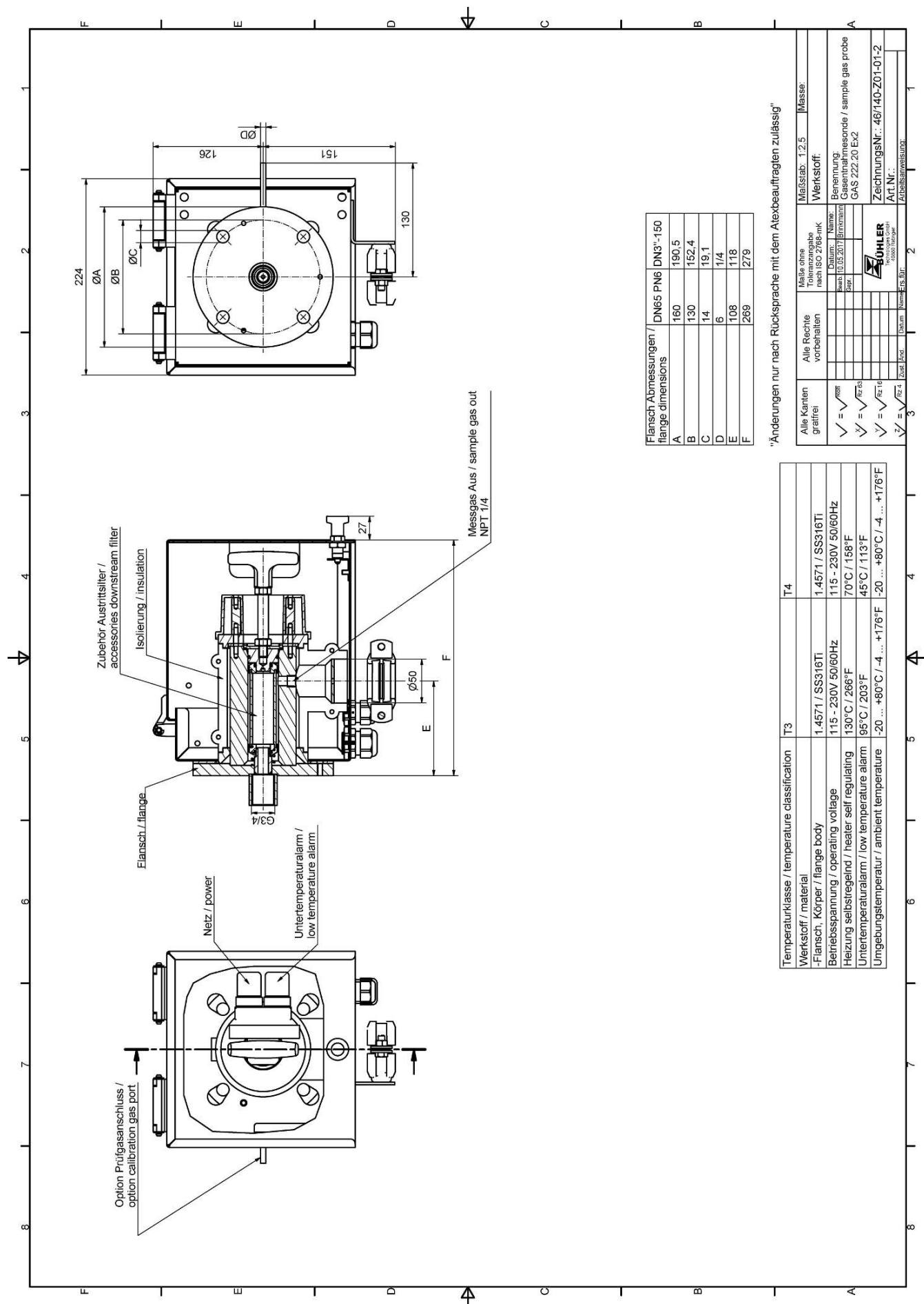
9.3 Terminal Diagram Probe Terminal Box

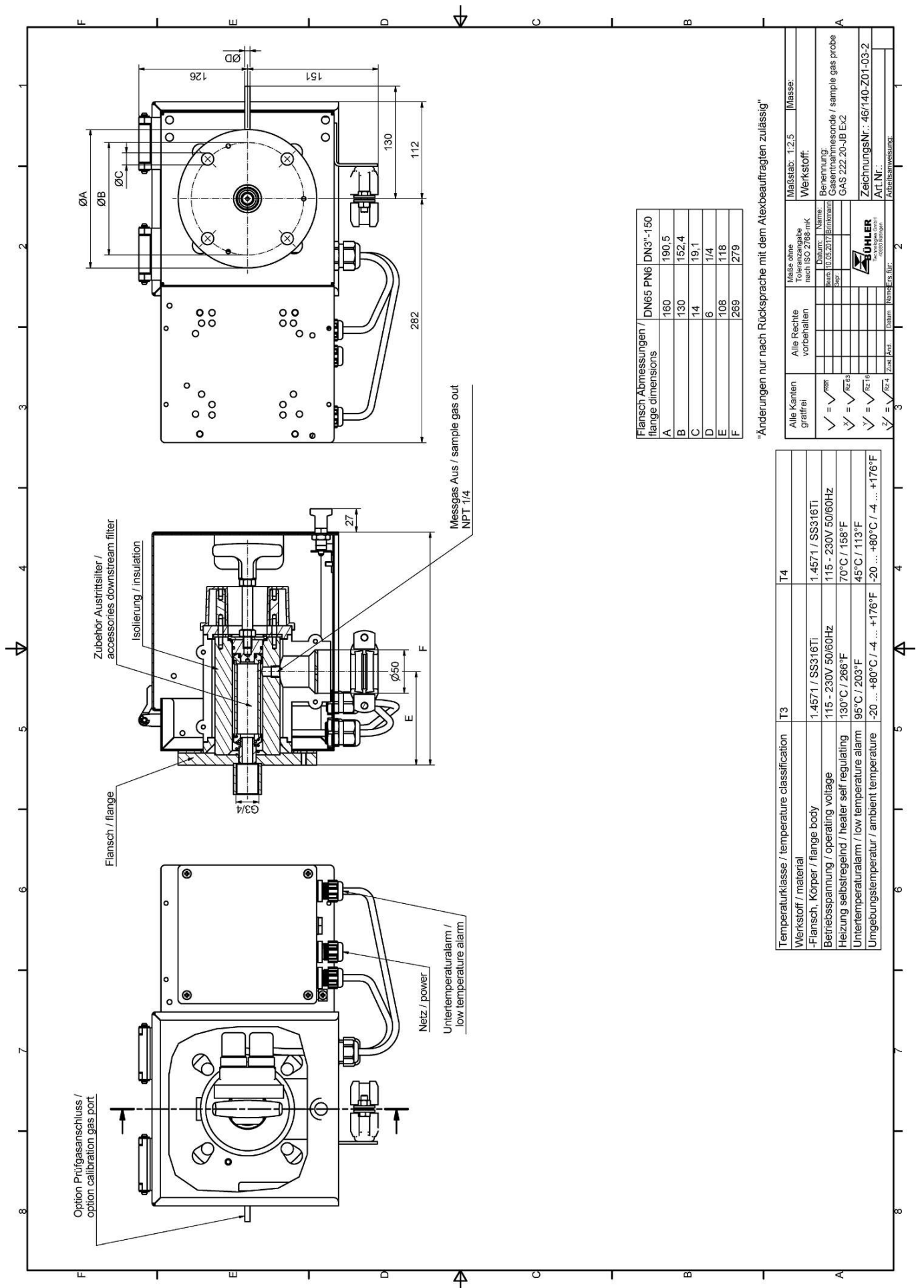


9.4 Flow chart



9.5 Dimensions





9.6 List of chemical resistance

Materials of your device in contact with media are printed on the type plate.

Formula	Medium	Concentration	Teflon® PTFE	FFKM	Viton® FPM	V4A
CH ₃ COCH ₃	Acetone		1/1	1/1	4/4	1/1
C ₆ H ₆	Benzol		1/1	1/1	3/3	1/1
Cl ₂	Chlorine	10 % wet	1/1	1/1	3/0	4/4
Cl ₂	Chlorine	97 %	1/0	1/0	1/1	1/1
C ₂ H ₆	Ethane		1/0	1/0	1/0	2/0
C ₂ H ₅ OH	Ethanol	50 %	1/1	1/1	2/2	1/0
C ₂ H ₄	Ethylene		1/0	1/0	1/0	1/0
C ₂ H ₂	Ethyne		1/0	1/0	2/0	1/0
C ₆ H ₅ C ₂ H ₅	Ethylbenzene		1/0	1/0	2/0	1/0
HF	Hydrofluoric acid		1/0	2/0	4/0	3/4
CO ₂	Carbon dioxide		1/1	1/0	1/1	1/1
CO	Carbon monoxide		1/0	1/0	1/0	1/1
CH ₄	Methane	technically pure	1/1	1/0	1/1	1/1
CH ₃ OH	Methanol		1/1	1/1	3/4	1/1
CH ₃ Cl ₂	Methylene chloride		1/0	1/0	3/0	1/1
H ₃ PO ₄	Phosphoric acid	1-5 %	1/1	1/1	1/1	1/1
H ₃ PO ₄	Phosphoric acid	30 %	1/1	1/1	1/1	1/1
C ₃ H ₈	Propane	gaseous	1/1	1/0	1/0	1/0
C ₃ H ₆ O	Propylene oxide		1/0	2/0	4/0	1/0
HNO ₃	Nitric acid	1-10 %	1/1	1/0	1/1	1/1
HNO ₃	Nitric acid	50 %	1/1	1/0	1/0	1/2
HCl	Hydrochloric acid	1-5 %	1/1	1/1	1/1	2/4
HCl	Hydrochloric acid	35 %	1/1	1/1	1/2	2/4
O ₂	Oxygen		1/1	1/1	1/2	1/1
SF ₆	Sulphur hexafluoride		1/0	1/0	2/0	0/0
H ₂ SO ₄	Sulfuric acid	1-6 %	1/1	1/1	1/1	1/2
H ₂ S	Hydrogen sulphide		1/1	1/1	4/4	1/1
N ₂	Nitrogen		1/1	1/0	1/1	1/0
C ₆ H ₅ C ₂ H ₃	Styrene		1/1	1/0	3/0	1/0
C ₆ H ₅ CH ₃	Toluol (methylbenzene)		1/1	1/1	3/3	1/1
H ₂ O	Water		1/1	1/1	1/1	1/1
H ₂	Hydrogen		1/0	1/0	1/0	1/0

0 - no information available

1 - durability/suitability very good

2 - durability/suitability good

3 - limited suitability

4 - not suitable

Two values are specified per medium. Left number = value at 20 °C, right number = value at 50 °C.

Important information

The tables were listed based on specifications from various raw material manufacturers. The values solely refer to laboratory tests using raw materials. Components made from these are often subject to impacts which cannot be determined in laboratory testing (temperature, pressure, material strain, impacts of chemical agents, design features, etc.). The values specified can therefore only serve as a guideline. When in doubt, we recommend performing a test. These specifications do not infer a legal claim, we exclude any warranty and liability. The chemical and mechanical durability alone do not suffice to determine the usage property of a product, particularly e.g. the regulations for liquid fuels (Ex-protection) must be observed.

Durability to other mediums available upon request.

9.7 User book (Please make copies)

Maintained on	Unit no.	Operating hours	Remarks	Signature