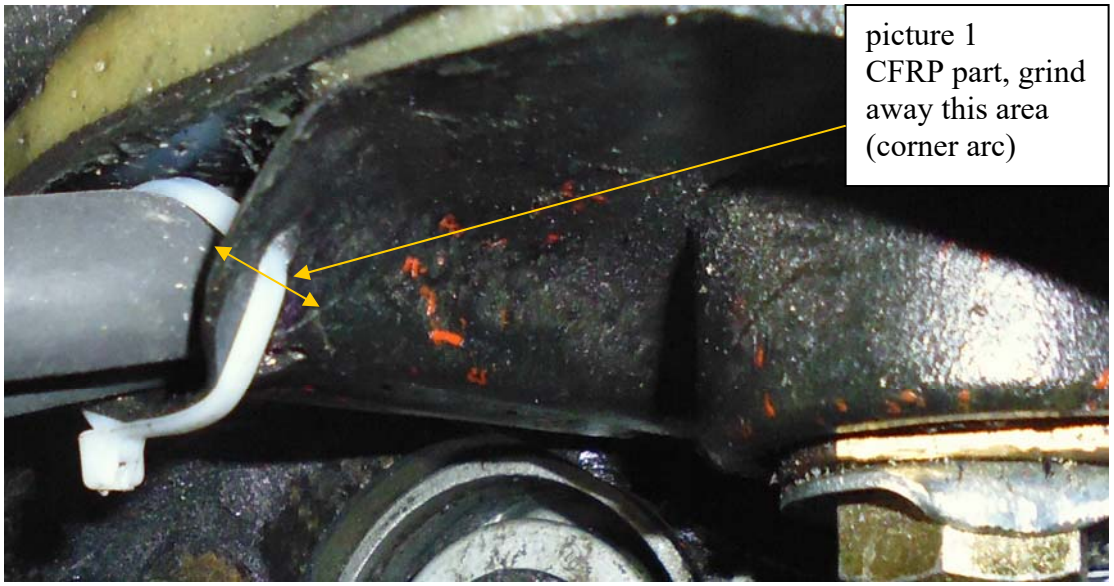
Working Instruction No. 1 for TN 800/46

Fuel supply line and return line at the powerplant pivot point

See also MM diagram 11e
Fuel supply line and return line are routed around the powerplant pivot point through a CFRP part which is glued to the drive-mount.
The fire-resistant fuel lines according to ISO 7840-A1 have a larger outside diameter (approx. 13.5 mm) as the fuel lines used so far. This makes it very difficult to route the hoses through the CFRP part.
Method A) Oil the outside of the hoses prior to pushing them through the CFRP part..
Method B) If Method A is not possible the lines may be routed as described below.
Only the fuel supply line will be routed through the CFRP part..
The return line will be routed outside of the CFRP part.
To accomplish this routing the corner arc of the CFRP part must be removed at the point where the hoses run upwards to prevent from chafing of the return line at the corner arc.

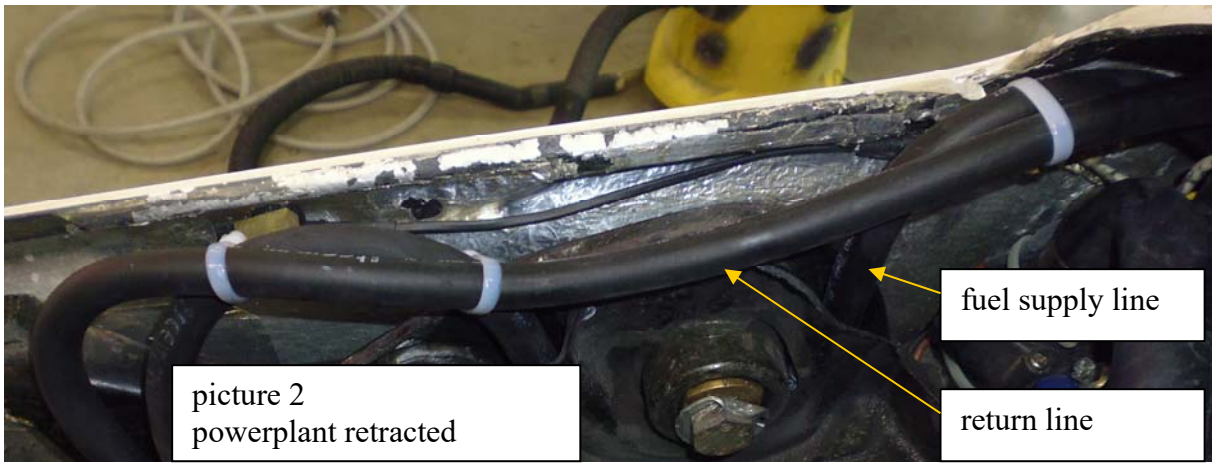
Working instruction for Method B)

1. Remove the existing hoses.
2. Grind away the corner arc of the CFRP part. Chamfer the corner, see pictures 1 and 3.

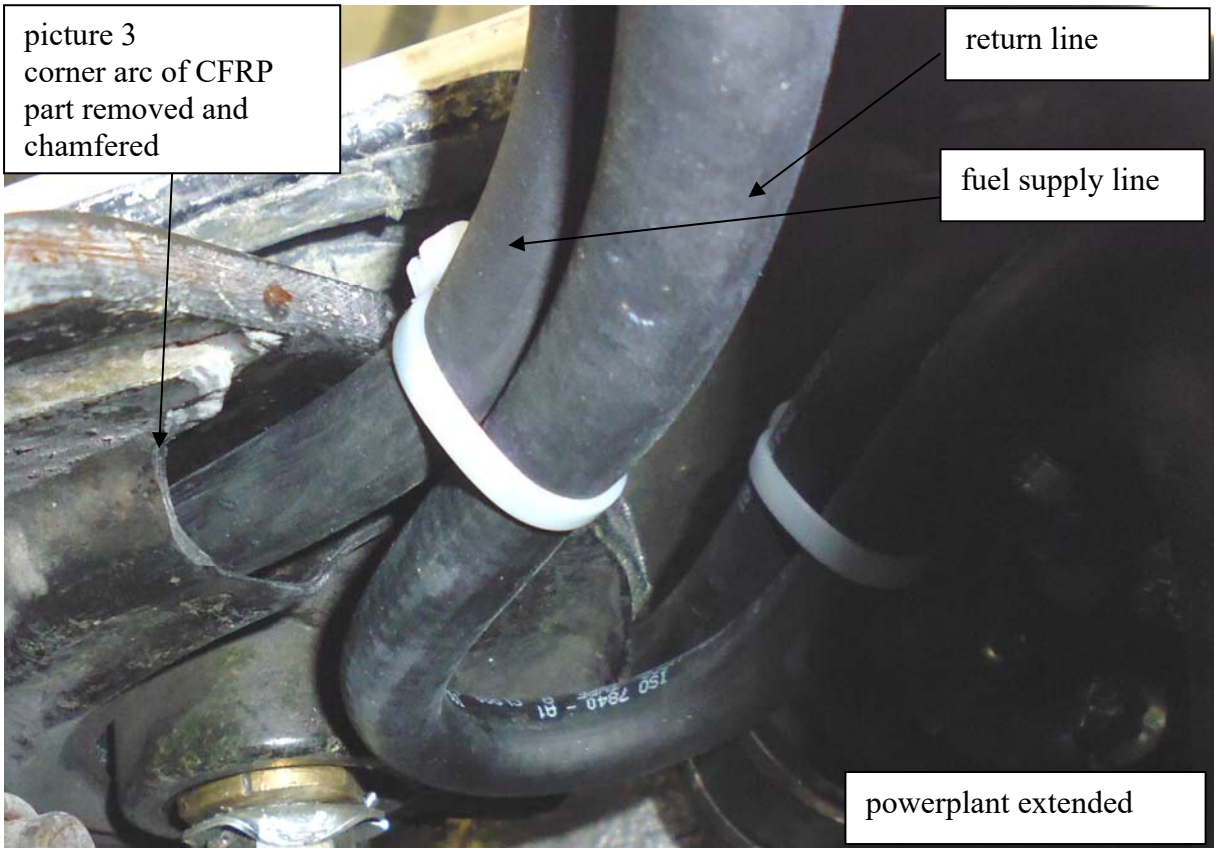


3. Enlarge the holes for the fuel hoses in the fire wall to dia. 19 mm. Install rubber sleeves DG part No. 60510523 in the holes.

4. Install the new hoses according to MM diagram 11b resp. 11d and pictures 2 and 3.
   Route the fuel supply line as before through the CFRP part.
   Shorten the return line by 250 mm compared to the length given in diagram 11b resp. 11d.
   Route the hose outside of the CFRP part according to pictures 2 and 3, fix with 3 cable ties to the supply line..

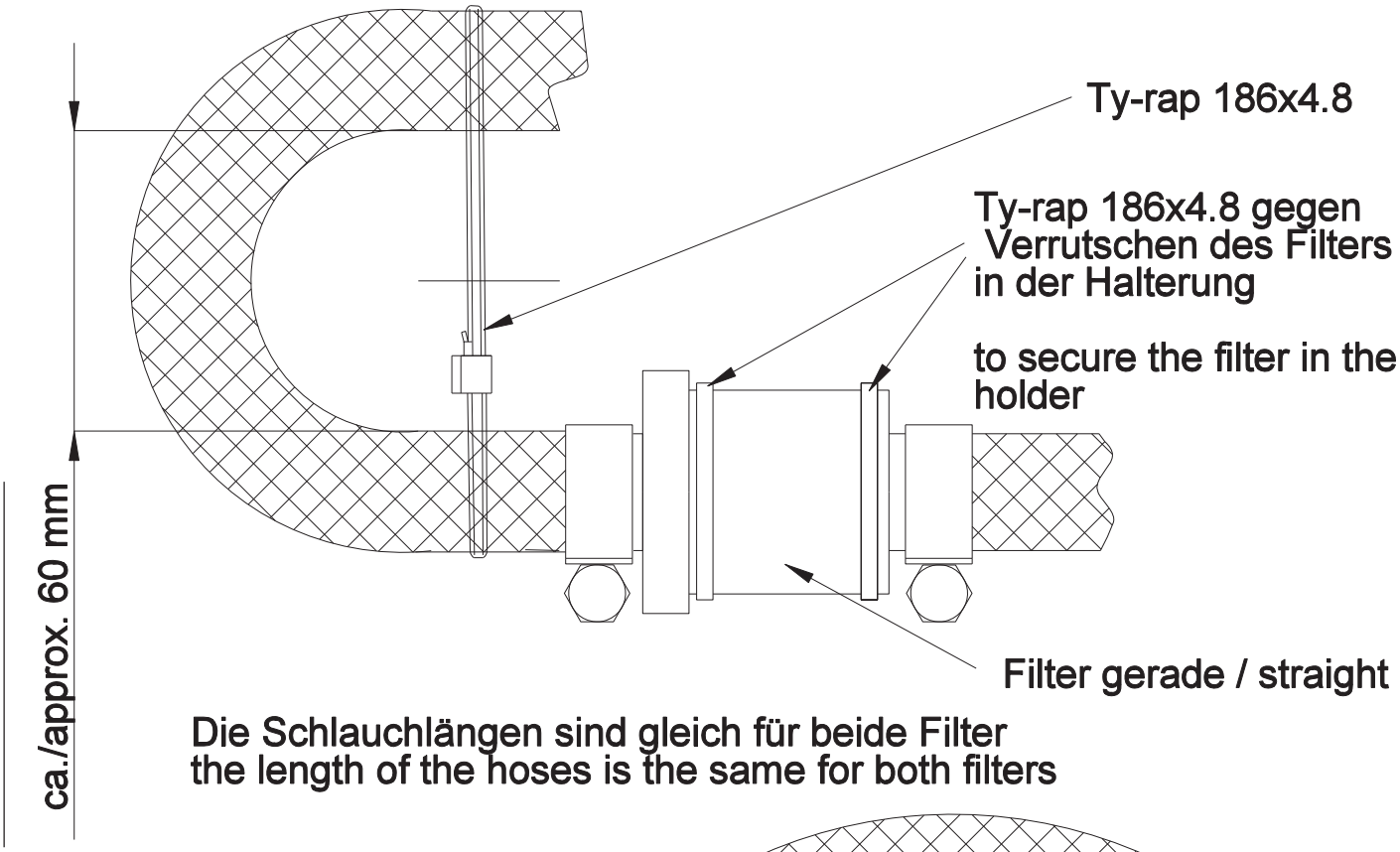


picture 2
powerplant retracted

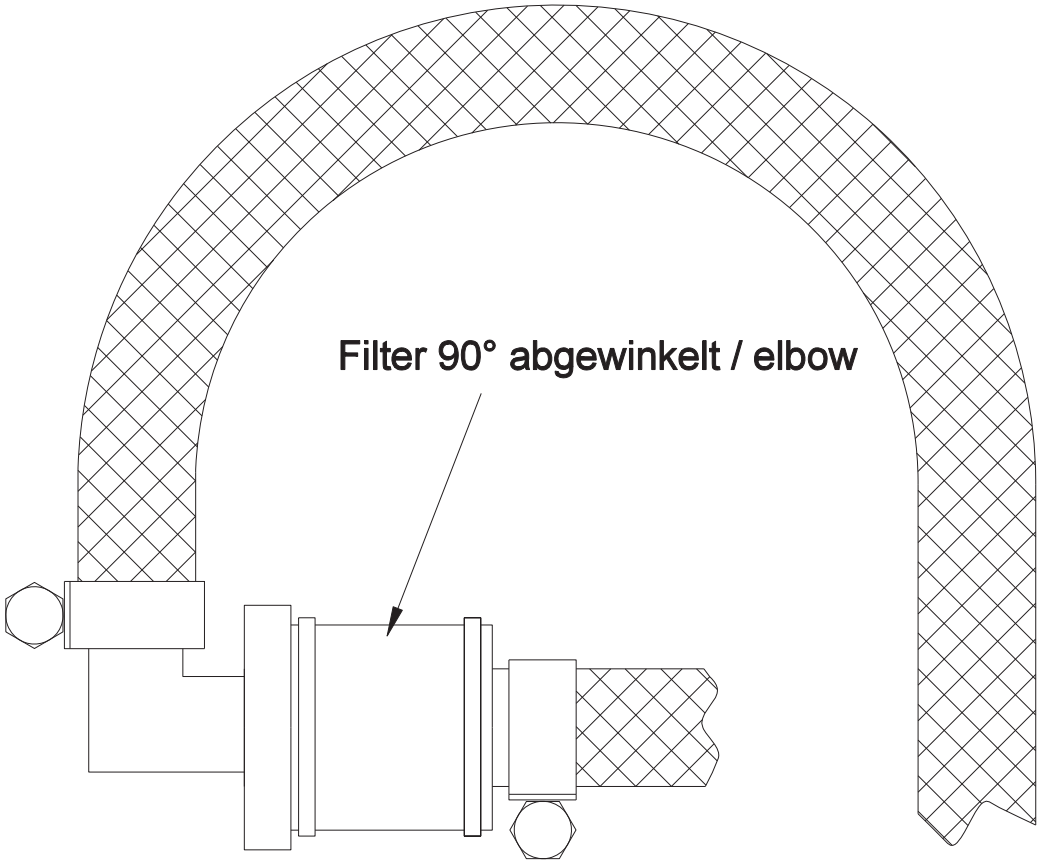


picture 3
corner arc of CFRP part removed and chamfered

Einbau des Kraftstoffilters
Installation of the fuel filter

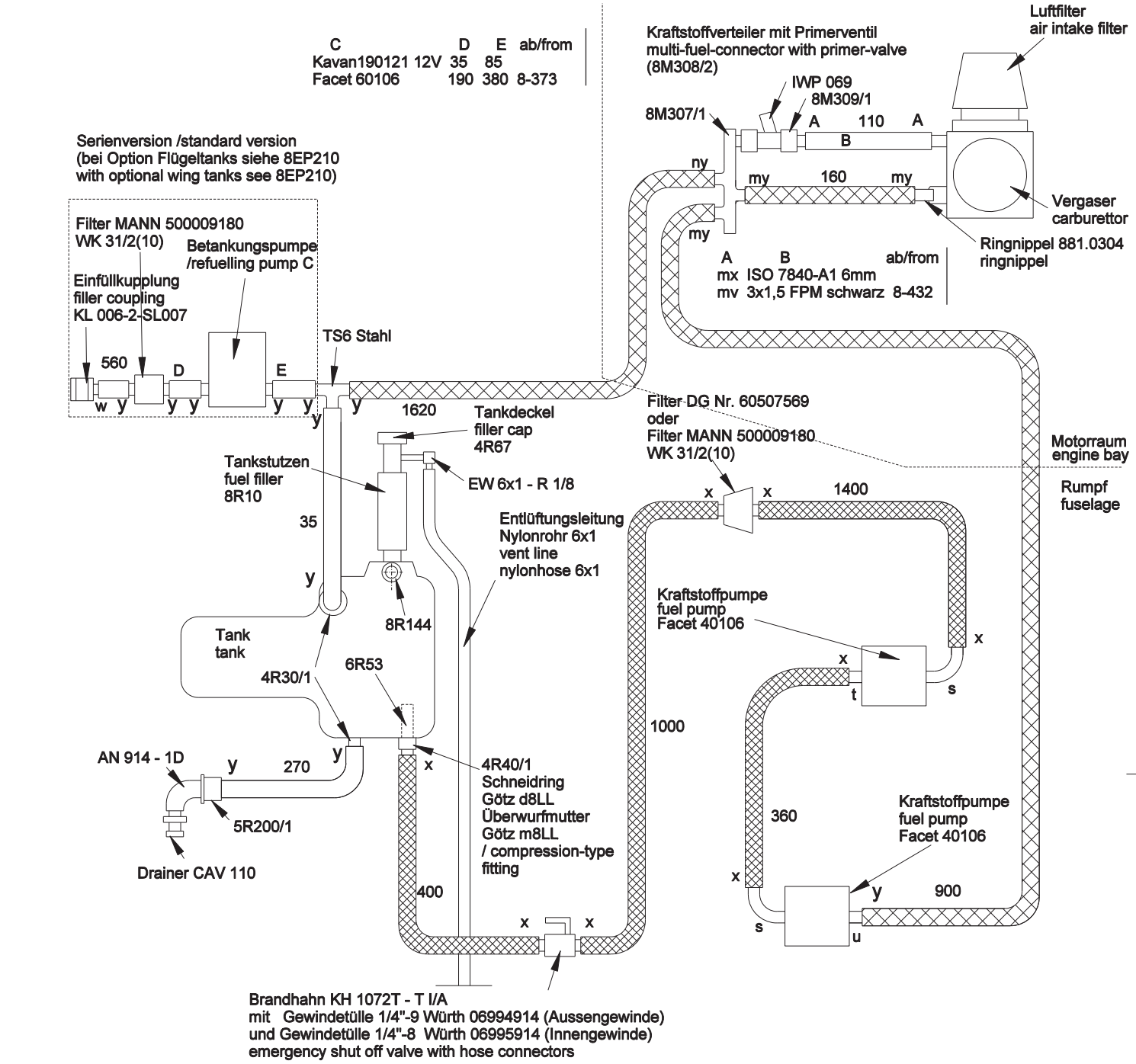


Die Schlauchlängen sind gleich für beide Filter
the length of the hoses is the same for both filters



DG-808C
Kraftstoffanlage / fuel system

Diagramm 11e
diagram 11e



Kraftstoffschläuche
fuel hoses

500

Länge [mm]
length [mm]

DIN 73379-2A ∅ 8mm innen / inside dia. 8mm
DIN 73379-2A ∅ 6mm innen / inside dia. 6mm
ISO 7840-A1 ∅ 6mm innen / inside dia. 6mm

Verbindungsstücke und Klemmen
Fittings and clamps

- s Winkelstück WSAG 08 1/8" Messing /elbow, brass
- t Facet Einschraubstutzen 41199 / nipple
- u Nipppel SAG 06/R1/8" / nipple
- m roter Schrumpfschlauch, 30mm lang / red heat shrink tubing
- n blauer Schrumpfschlauch, 30mm lang / blue heat shrink tubing
- v Schlauchschelle S70/4 (8) / hose clamp
- w 1-Ohrklemme 133.3 / ear clamp
- x Schlauchschelle S70/7 (14/9) / hose clamp
- y Schlauchschelle S70/6 (13/9) / hose clamp

Ausgabe Januar 2018 TM800/46
issued January 2018 TN800/46

Kraftstoffschläuche / fuel hoses
DIN 73379-2A (a)

⌀6mm innen/inside dia. 6mm ⌀8mm innen/inside dia. 8mm

R Reduziernippel 3/8"x1/4" /reducing nipple
S Nippel GWT 1/4-8 / nipple
T T-Stück TRS 8-6-8 / T-fitting
V T-Stück TS6 / T-fitting
X Schlauchschelle S70/6 (13/9) / hose clamp
Z Schlauchschelle S70/7 (14/9) / hose clamp (a)

Flugrichtung
direction of flight

Verschlusskupplung
KL-006-0-SL007
coupling

Fahrwerkskasten
Landing gear box

Bremsklappensteuerung Welle 8St12
airbrake control shaft

Tank

l=250mm (Facet Pumpe)
l=35mm (Kavan Pumpe)

siehe 8EP209
see 8EP209

Z

l=550mm

S

40

l=100mm

V

X

l=35mm

X

siehe 8EP209
see 8EP209

X

l=35mm

Verschlusskupplung
KL-006-0-SL007
coupling

Z

l=290mm

R

A

20

Z

Z

X

TyRap

l=50mm

T

l=240mm

a

60

Z

Z

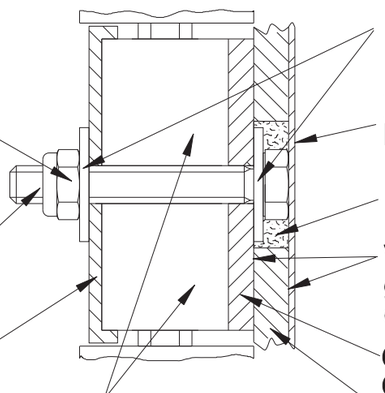
TyRap

A

GFK-Platte 47 x 60 x 4
GFRP plate

GFK-Platte 80 x 80 x 5
GFRP plate

Schnitt A-A
cross section A-A



6.4 DIN9012 St zn

M6 DIN985.8 zn

Fahrwerkskasten
landing gear box

BW-Harz/ resin thickened with cotton flocks

M6x40 DIN933-8.8 zn

Verklebung mit BW-Harz
glued with resin thickened with
cotton flocks

S59/1

GFK-Platte 47 x 60 x 4
GFRP plate

Magnetventil
electromagnetic valve

GFK-Platte 80 x 80 x
GFRP plate

Magnetventil staiger
MA242-004V27SAH12/00SW
electromagnetic valve

25,4mm = 1inch

Toleranzen nach Arbeitsanweisung BA 1				
Schweißen nach Arbeitsanweisung SA 1				
a	TM800/46 Kraftstoffschläuche		25.01.18	W.Dirks
Ausg.	Änderung	ÄM	Tag	Name

	Tag	Name
Gez.	12.02.07	Bruchmüller
Gepr.		
Norm.		

Maßstab
Maße ohne Toleranz-ang. nach:

DG Flugzeugbau GmbH
76646 Bruchsal
Otto-Lilienthal-Weg 2

DG-808C

Flügelkraftstofftankanlage rumpfseitig mit Magnetventilen

wing fuel tank system fuselage side with electromagnetic valves

8EP210