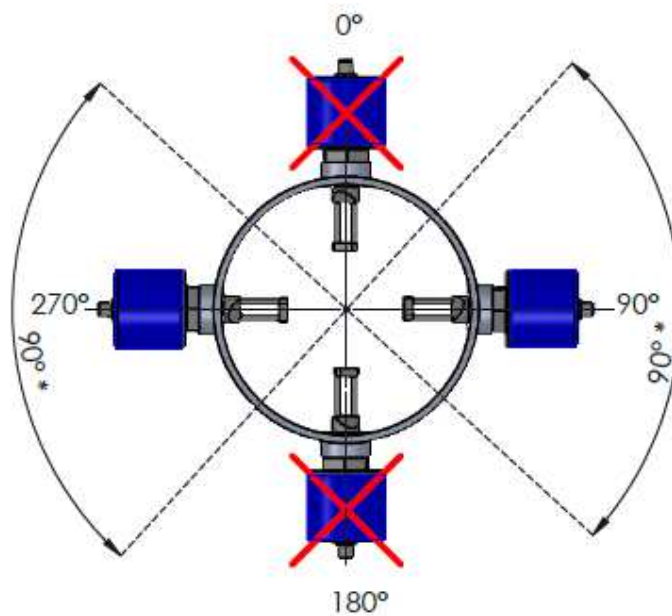# Procedure for proper AFGUARD® installation

Step 1:

Select the best place for installation in the effluent pipe section.

Have a look on the assembly area:

* Montagebereich
ASSEMBLY AREA

Step 2:

Drain the pipe section.

Step 3:

Disconnect the pipe section from the vessel and clean the pipe section from flammable fluids.

Step 4:

Drill the hole for the AFGUARD® socket.

Drilling tools:

HSS cylindrical saw 45mm for a hand drilling

machine AFGUARD® socket stainless steel

FAUDI article number: 600355

HSS cylindrical saw 54mm for a hand drilling

machine AFGUARD® socket aluminium

FAUDI article number: 600356

Please have a look on the welding instruction on the next page.

341000

FASN-01-001.2 - 1.4541
FASN-01-001.5 - 316L

341010

FASN-01-001.3 - ALMg4,5Mn

0°

45°   WIG

Ø 40   G3/4

2

20

M 1:1

270°   90° *

90° *   90° *

180°

45°   WIG

Ø 50   G3/4

2

20

M 1:1

* Montagebereich
ASSEMBLY AREA

Anweisung:

Nach dem Einschweißen der Muffe das Gewinde mit einem
G3/4"-Gewindebohrer nachschneiden.

INSTRUCTION:

AFTER WELDING , RECUT THE THREAD WITH A G3/4"-TAP.

				Projekt- Nr.:			Datum	Name	**FAUDI** aviation
				Kunde:		Erstellt:	22.08.2017	MB	quality guarantees safety
				Werkstoff:	-	Geprüft:	22.08.2017	MK	35280 Stadtallendorf
				Gewicht (kg):	-	Freigabe:	-	-	
				Benennung:					Blattformat: A3
04	Zg. aktualisiert	23.08.17	MB	**Schweißanweisung**	Muffe FASN-01-001.X				Projektion:
03	Intern	22.10.15	MK	**WELDING INSTRUCTION**	SOCKET FASN-01-001.X				
02	Intern	06.03.15	AWa	Werks - Norm:	Zchngs.- Nr.:				Entst. aus:
01	ÄM-0271	03.02.14	AWa						Ersatz für:
Rev.	Änderung	Datum	Bearb.		**600283**				Maßstab: 1:5 Blatt: 1 von Blatt: 1

Step 5:

Weld the special AFGUARD® socket into the pipe section.

Step 6:

After welding, it is recommended to thread the socket with a G3/4"-thread cutter.

Step 7:

Proceed a pressure test to ensure the required PN rating of the pipe section.

Step 8:

Reassemble the pipe section (ensure to use good working seals).

Step 9:

Install the AFGUARD® in the socket with the provided special KLINGERSIL-sealing.

Use the special AFGUARD® torque spanner to achieve the recommended torque of 50Nm.

Step 10:

Connect the AFGUARD® to the control system of the truck / tank farm by the use of the blue two wire cable.

For hazardous area use please ensure to only use an AFGUARD® together with a suitable barrier with power supply – see next page.

Electrical connection of the AFGUARD® on a control system

Explosive hazardous
area zone 0, 1, 2

EX

EX (crossed out)

Non-hazardous
area

I+   I-

RN 221 N

or
comparable
approved
by
FAUDI
Aviation

O+   O-

L   N
L+   L-

Power supply
24 VDC

Zone 0

measured water   15.1 ppm
Status: o.k.

50.0 ppm
40.0 ppm
30.0 ppm
20.0 ppm
10.0 ppm
0.0 ppm

21:53:28   22:00:34

Menu   22:00:35

The output signal of the Ex i barrier
is an analog 4…20mA-signal –active-,
that signal must be processed from
the control system on the truck /
tank farm.