manual

MOUNTING – DISMOUNTING

ASSEMBLING – DISASSEMBLING
INSTRUCTION

TECHNICAL
INFORMATION

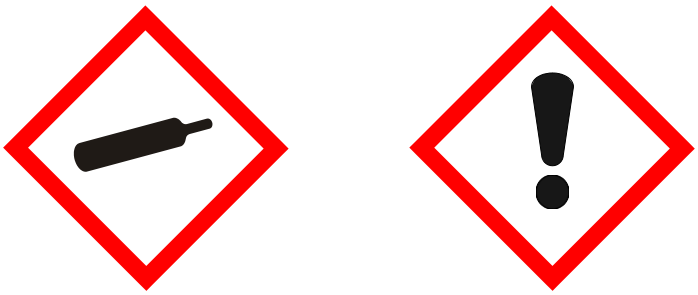
ET-GR FS
ET-AC FS

DSI
MICRO MATIC

MICRO MATIC

Health and safety

Incorrect assembly/installation may damage the keg spear and poses the risk that components may occasionally come off during initial pressurization and can cause harm to product and person.



Quality

Specialised sealing systems made of high-grade materials are in daily utilisation with all our types of extractor tubes. Due to continuous improvement of our technology, we are able to equip all A-type and G-type systems with a two-year warranty.

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4. Assembling Instruction
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1. Mounting Instruction

ET-AC FS

ET-GR FS

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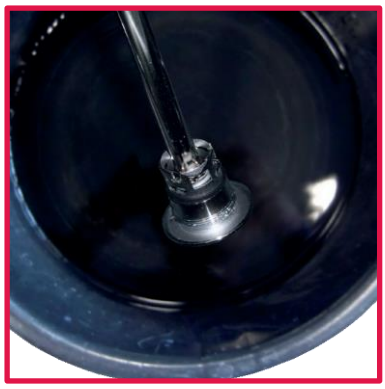
Fig. 01



1. Moisten the extractor tube with water.

Fig. 02

2. Check if the keg neck is clean. Clean the keg neck from any contaminations.

Fig. 03

3. Check that the sealing ring is not damaged and positioned correctly.

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Fig. 04

4. Click the tool on the extractor tube by pushing it into the rubber valve.

   ATTENTION PLEASE: Do not press the handles!

Fig. 05

5. Rotate the tool clockwise to unlock the bayonet plate.

Fig. 06

6. Fit the extractor tube bayonet plate through the keg neck.

Fig. 07

7. Lift the tool with the extractor tube engaged upwards until contact is made between the welded bayonet plate and the bottom edge of the spear body. Continue lifting the tool upwards and rotate it clockwise until a positive upward movement of the assembly occurs.

Fig. 08

8. Now rotate the tool counter-clockwise until the body stops. When the bayonet plate is fixed in the body, please press the handles together to release the tool and lock the bayonet plate.

Fig. 09

9. Attention: The three lines on the body have to match the corners of the triangle on the top of the tube. If this is NOT the case, please go to page 11/12 and follow point 3-4 and repeat afterwards point 7-9 on this page.

Fig. 10

10. Tighten the extractor tube (rotate it clockwise) with the DSI screw-in/screw-out tool.
    The mounting torque (continuous) must be 80 ±5 Nm.

Fig. 11

11. Remove the screw-in/screw-out tool. The keg is ready for use now.

2. Dismounting Instruction

ET-AC FS

ET-GR FS

Fig. 12

1. Decompress the keg e. g. by means of the DSI decompression tool.

Fig. 13

2. Unscrew the extractor tube (rotate it counter-clockwise) with the DSI screw-in/screw-out tool.

Fig. 14

3. Click the tool on the extractor tube by pushing it onto the rubber valve.

   ATTENTION PLEASE: Do not press the handles!

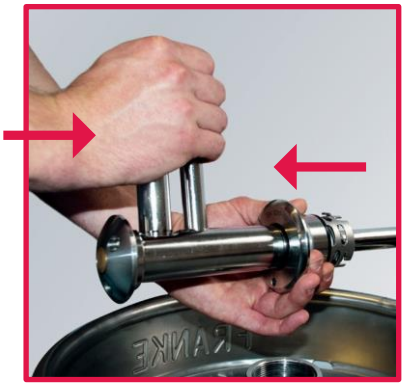
Fig. 15

4. Lift the tool with the locked extractor tube a little bit and rotate it clockwise to unlock the bayonet plate while holding the body.

Fig. 16

5. Lift the spear body upward at the tool. Now the extractor tube can be taken out of the keg neck.

Fig. 17



6. Engage body in the bayonet locks by turning it clockwise. Press the handles together to release the tool and the extractor tube is reassembled.

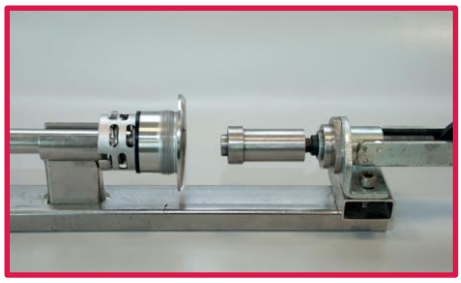
3. Disassembling instruction

ET-AC FS

ET-GR FS

DISASSEMBLING INSTRUCTION

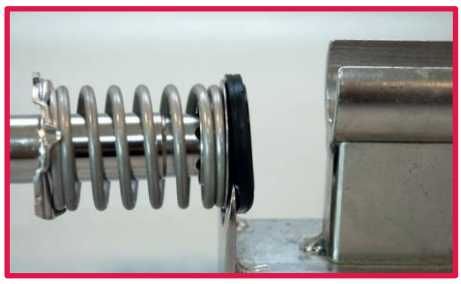
EXTRACTOR TUBE ET-AC FS / ET-GR FS



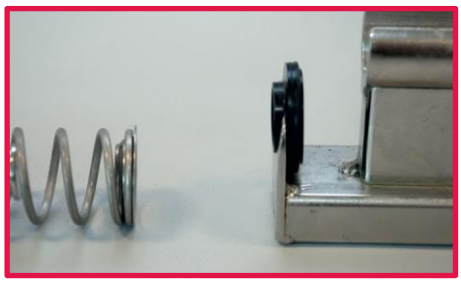
1. Push the handle of the DSI Tool backward. Place the extractor tube in the tool.

2. Push the handle forward to relax the spring.

3. Turn the body clockwise and move it onto the ring nut. Push the handle backward to take the tube and the body out of the tool.



4. Remove the valve by pushing the fork (at the end of the tool) between the valve and the metal part and pulling it away from the tool.



5. Take off the remaining parts. The extractor tube is disassembled.

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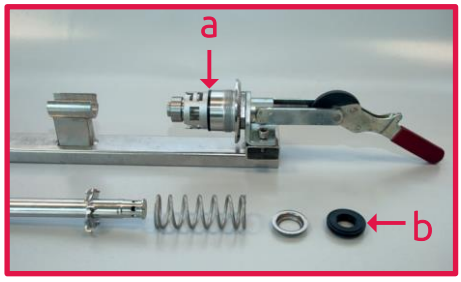
4. Assembling instruction

ET-AC FS

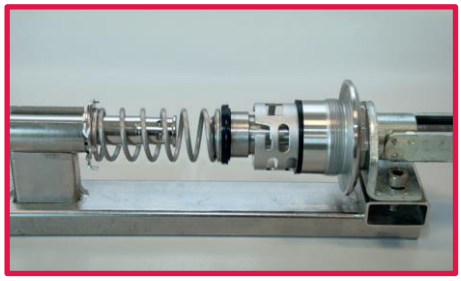
ET-GR FS

ASSEMBLING INSTRUCTION

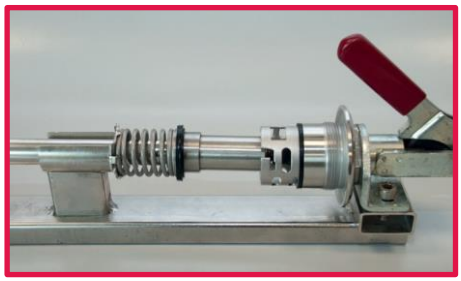
EXTRACTOR TUBE ET-AC FS / ET-GR FS



1. Replace the sealing ring on the body (a) and the main seal (b). Put the body onto the ring nut and keep all the parts ready. Before assembling, moisten the rubber parts with water.

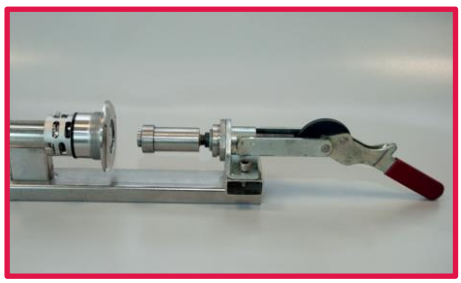


2. Place all the pieces in the correct sequence on the tube. Put the extractor tube in the tool.



3. Centre the spring between the guides on the locking plate. Mount the valve on the tube by pushing the handle foreward.

4. Move the body to the locking plate and turn it counter-clockwise after the body is positioned in the lugs. Check if lock/safety is correct.



5. Push the handle backward in order to tension the spring and take out the extractor tube. Please check the correct position of the seals. The extractor tube is ready for use now.

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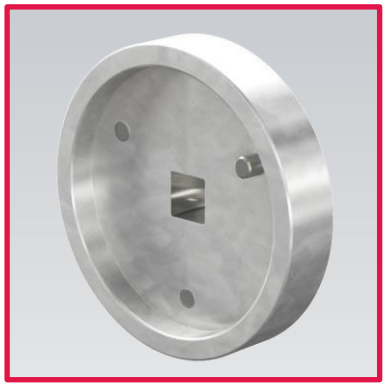
5. Tool List

ET-AC FS

ET-GR FS

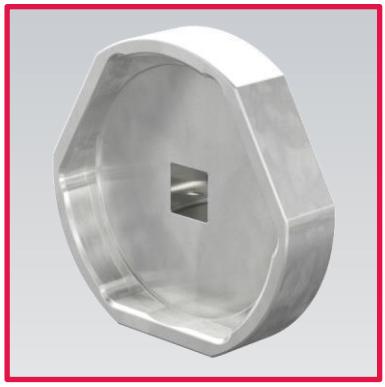
1. Removal tool

   part number: 910550



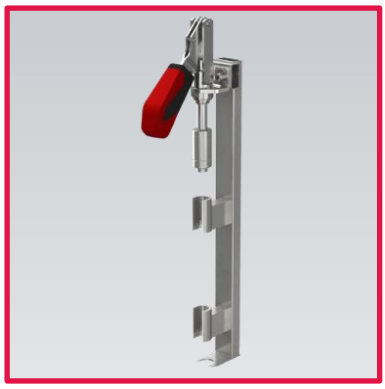
2. Screw-in/screw-out tool:

   part number: 550426.8



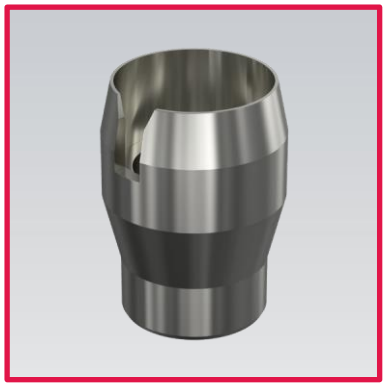
3. Screw-in/screw-out tool:

   part number: 550425.7



4. Assembling/Disassembling tool:

part number: 910555



4. Assembling tool:

part number: 611326

6. Decompression tool:

ET-AC FS: part number: 811225

7. Decompression tool:

ET-GR FS: part number: 811226

6. Technical Information

ET-AC FS

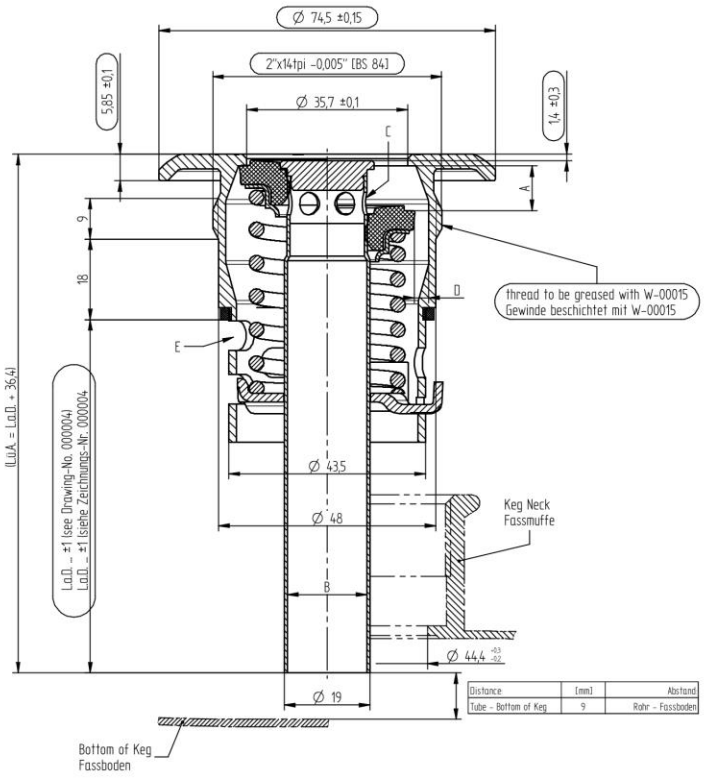
ET-GR FS

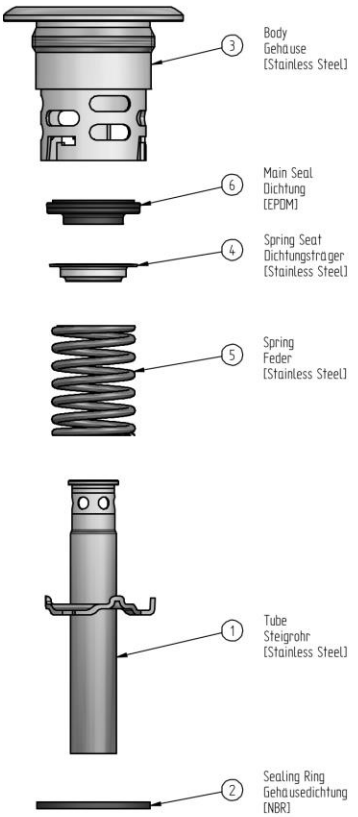
TECHNICAL INFORMATION

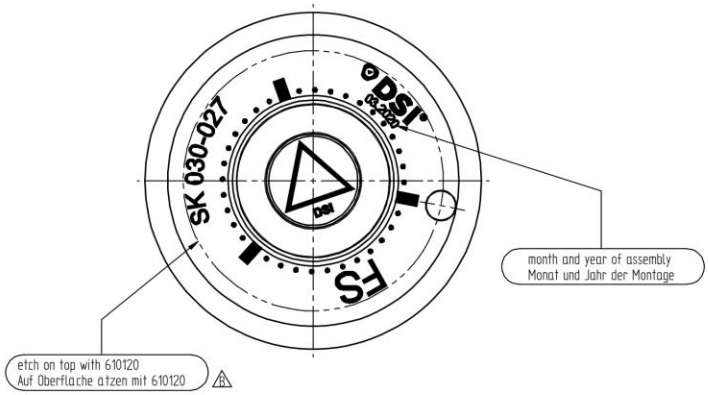
EXTRACTOR TUBE ET-AC FS / ET-GR FS

EN	DE
Product Information	Produktinformationen
according to DIN 6650, DIN 3542 and FDA regulations	Produkt nach DIN 6650, DIN 3542 und FDA Bestimmungen
for specific length calculation keg drawing or H3-dimension is needed according to DIN 6647	Für konkrete Längenberechnung wird die Keg-Zeichnung oder das H3-Maß nach DIN 6647 benötigt
gastight	gasdicht
mounting torque: 80±5 Nm	Anzugsdrehmoment: 80±5 Nm
temperature resistance short-time 160°C	Temperaturbeständigkeit kurzfristig 160°C
for more information www.dispensegroup.com	für mehr Informationen www.dispensegroup.com

	EN	DE		
	Stroke and Passages	Hub und Öffnungsquerschnitte		
I	main seal part 6 – part 3	Dichtung Pos. 6 – Pos. 3	A	9 – 12 mm
II	through inner tube Φ 17,6 part 1	innerhalb des Steigrohres Φ 17,6 Pos. 1	B	240 mm²
	6 holes in part 1	6 Löcher in Pos. 1	C	120 mm²
III	through outer tube part 3 – part 6	außerhalb des Steigrohres Pos. 3 – Pos. 6	D	470 mm²
	in part 3	in Pos. 3	E	980 mm²







weight calculation ± 5% / Gewichtsberechnung ± 5%

$$m\,[g] = L.a.D.\,[mm] * 0{,}315\frac{g}{mm} + 300g$$

Pos.	Quantity	Art.-No.	Title
1	1	000013	Master Down Tube Assembly (fixed Safety)
2	1	025130.6	Sealing Ring
3	1	028092.9	Body AC 2"x14tpi
4	1	551082.4	Spring Seat
5	1	551083.5	Spring
6	1	610116	Main Seal 160°C saturated steam

PRODUCT | TOLERANCES DIN ISO 2768-mH | ROUGHNESS DIN EN ISO 1302 | EDGES DIN EN ISO 13715 | LAST CHANGE 1 x △ | SCALE 1,5:1 (1:1,25) | WEIGHT / VOLUME | MATERIAL

	DATE	NAME
DESIGN	14.01.2015	lasko
AM	3024	
CHK	30.03.2020	kunze
APP	27.03.2023	somme

TITLE: Master Extractor Tube AC FS 2"x14tpi

PROJ. METHOD | FORMAT | DRAWING NUMBER | SHEET
A2 | 000007 | 1 | 1 SHTS

B new logo DSI 30.03.2020 Kunze 4427
A changed etching template design 21.08.2016 Lasko 3478
ALTERATIONS | DATE | NAME | AM
PROD. DEV. GERMANY | REPL. - | REPL. BY -

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TECHNICAL INFORMATION

EXTRACTOR TUBE ET-AC FS / ET-GR FS

EN	DE
Product Information	Produktinformationen
according to DIN 6650, DIN 3542 and FDA regulations	Produkt nach DIN 6650, DIN 3542 und FDA Bestimmungen
for specific length calculation keg drawing or H3-dimension is needed according to DIN 6647	Für konkrete Längenberechnung wird die Keg-Zeichnung oder das H3-Maß nach DIN 6647 benötigt
gastight	gasdicht
mounting torque: 80±5 Nm	Anzugsdrehmoment: 80±5 Nm
temperature resistance short-time 160°C	Temperaturbeständigkeit kurzfristig 160°C
for more information www.dispensegroup.com	für mehr Informationen www.dispensegroup.com

	EN	DE		
	Stroke and Passages	Hub und Öffnungsquerschnitte		
I	main seal part 6 – part 3	Dichtung Pos. 6 – Pos. 3	A	9 – 12 mm
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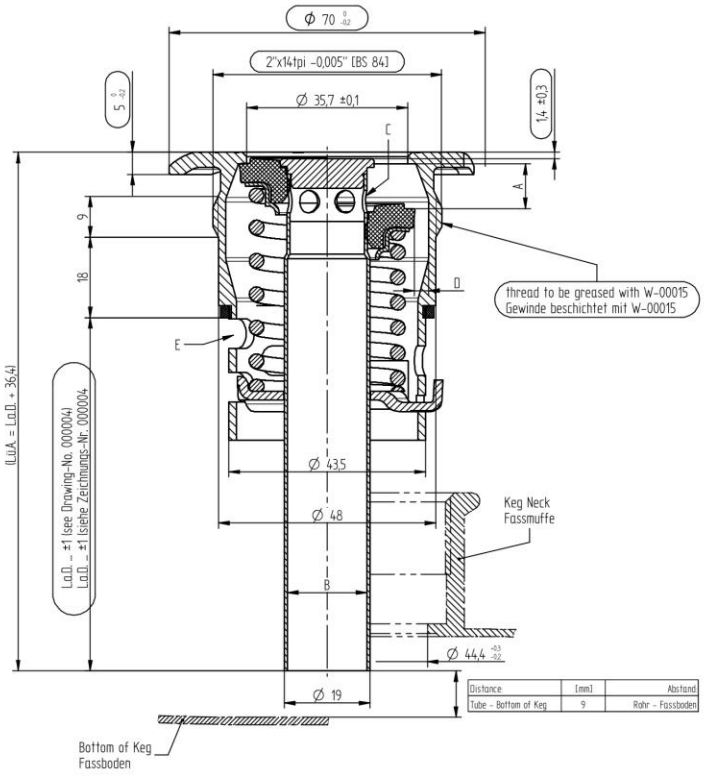
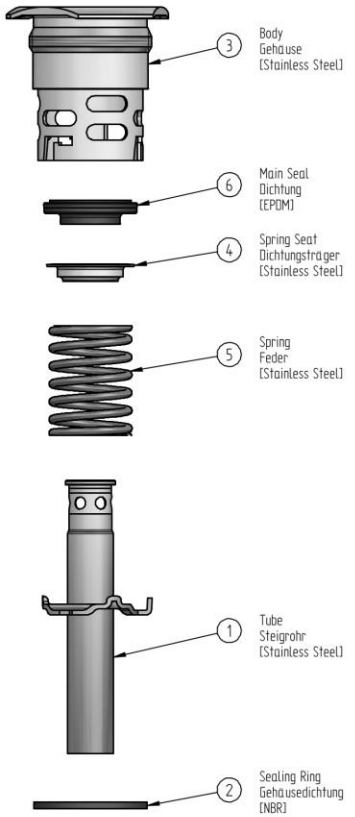
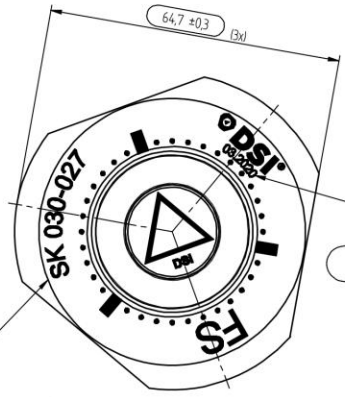
	6 holes in part 1	6 Löcher in Pos. 1	C	120 mm²
III	through outer tube part 3 – part 6	außerhalb des Steigrohres Pos. 3 – Pos. 6	D	470 mm²
	in part 3	in Pos. 3	E	1160 mm²







weight calculation ± 5% / Gewichtsberechnung ± 5%

$$m\,[g] = L.a.D.\,[mm] * 0{,}315\frac{g}{mm} + 280g$$

Pos.	Quantity	Art.-No.	Title
1	1	000013	Master Down Tube Assembly (fixed Safety)
2	1	025130.6	Sealing Ring
3	1	028193.0	Body GR 2"x14tpi
4	1	551082.4	Spring Seat
5	1	551083.5	Spring
6	1	610116	Main Seal 160°C saturated steam

PRODUCT	TOLERANCES DIN ISO 2768-mH	LAST CHANGE	SCALE 1,5:1 (1:1,25)
	ROUGHNESS DIN EN ISO 1302	1 x △	WEIGHT VOLUME
	EDGES DIN EN ISO 13715		MATERIAL
	DESIGN 20.12.2013 lasko		TITLE Master Extractor Tube GR FS 2"x14tpi
	AM 3024		
	CHK 02.05.2022 kunze		
	APP 29.08.2022 kunze		
B new logo DSI 01.04.2020 Kunze 4427	DSI MICRO MATIC		PROJ. METHOD A2 FORMAT 000012 SHEET 1 1 SHTS
A new etching template design 23.08.2016 Lasko 3478			
△ ALTERATIONS DATE NAME AM	PROD. DEV. GERMANY		REPL. - REPL. BY -

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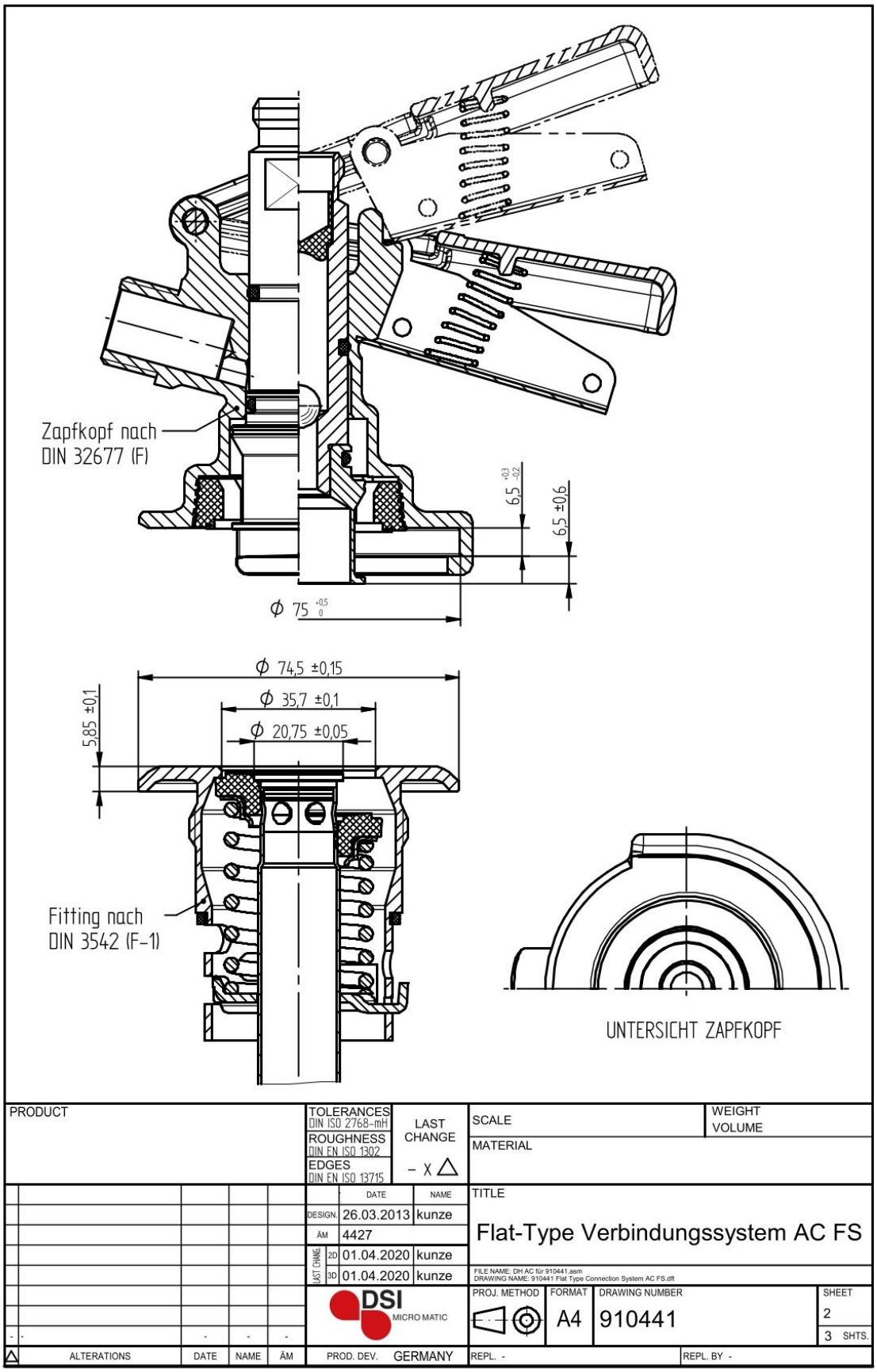
7. Connections

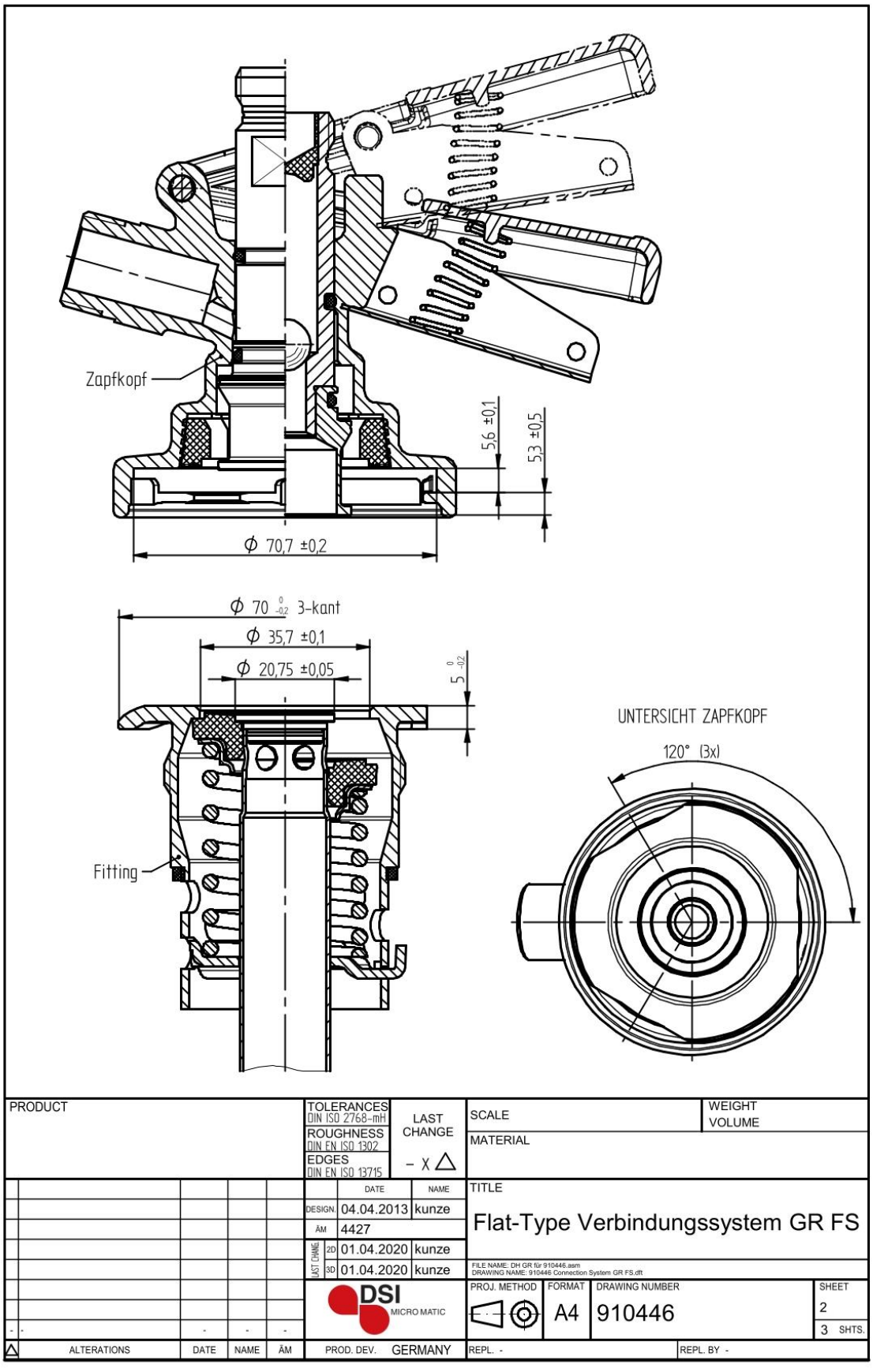
ET-AC FS

ET-GR FS



CONNECTIONS

EXTRACTOR TUBE ET-AC FS / ET-GR FS



PRODUCT	TOLERANCES DIN ISO 2768-mH ROUGHNESS DIN EN ISO 1302 EDGES DIN EN ISO 13715	LAST CHANGE – X △	SCALE / WEIGHT / VOLUME MATERIAL
	DESIGN. 04.04.2013 kunze ÄM 4427 LAST CHANGE 2D 01.04.2020 kunze 3D 01.04.2020 kunze		TITLE: Flat-Type Verbindungssystem GR FS FILE NAME: DH GR für 910446.asm DRAWING NAME: 910446 Connection System GR FS.dft
	DSI MICRO MATIC		PROJ. METHOD / FORMAT A4 / DRAWING NUMBER 910446 / SHEET 2 / 3 SHTS.
△ ALTERATIONS / DATE / NAME / ÄM	PROD. DEV. GERMANY		REPL. - / REPL. BY -

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