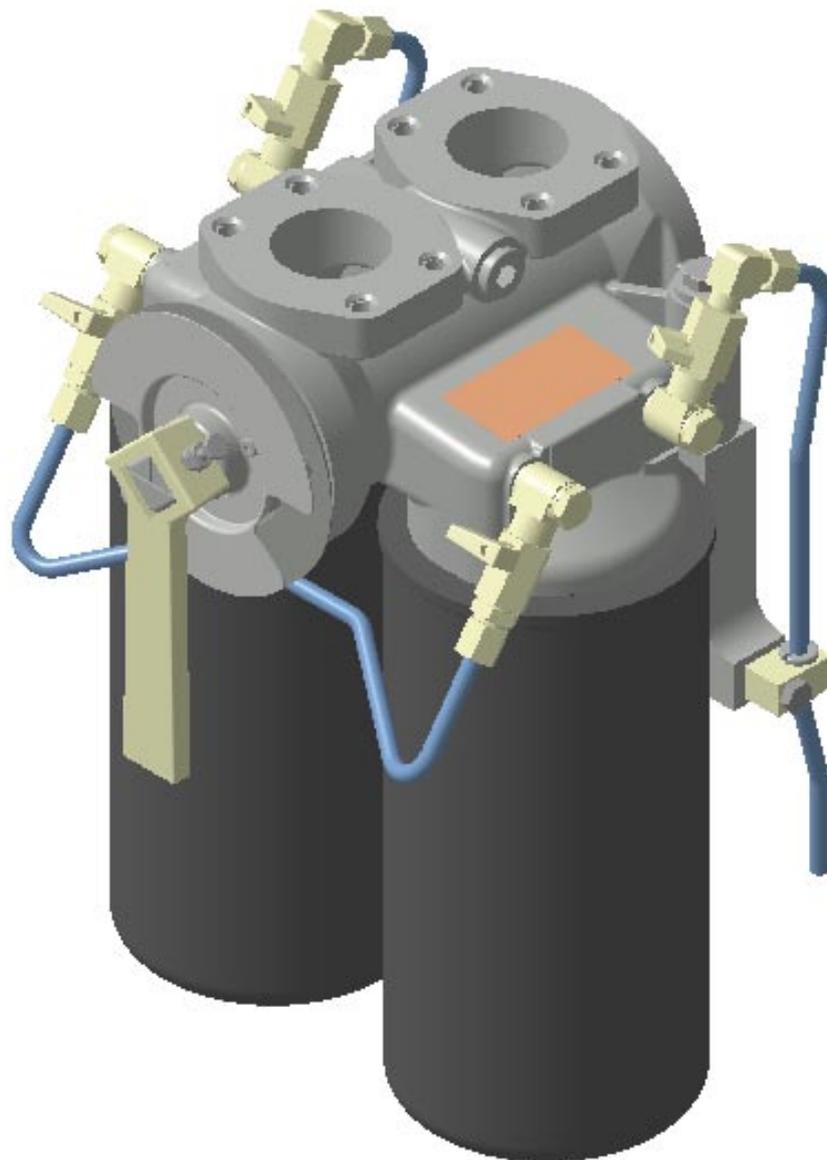


MANN Fuel filter

Series 66 730 82 1XX

Operating Instructions



Contact Information

MANN+HUMMEL GMBH
Business Unit Industrial Filters

Brunckstr. 15,
D - 67346 Speyer
Germany

Telephone: + 49 6232 53 8265

Telefax: + 49 6232 53 8370

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1. Preface

These operating instructions should make it easier for personnel to familiarize themselves with the MANN Fuel filter and to use it in the various application areas for which it was designed.

The operating instructions contain important information on operating the components safely, correctly and economically. These instructions must be followed in order to avoid danger, reduce repair costs and down times and increase the reliability and working life of your machine.

The instructions must be made accessible to every person working with the filter.

Furthermore, these instructions must be supplemented as necessary with the applicable national regulations regarding accident prevention and environmental protection (in particular the disposal of removed parts).

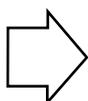
We reserve the right to make technical modifications to the filter and/or modify the content of these operating instructions.

encl: Technical Drawing

2. Warnings and symbols



Indicates all points in the instruction affecting your personal safety. Non-observance of these instructions may endanger life and limb.



Indicates what the user should pay close attention to in order to ensure trouble-free and economical operation of the equipment.

3. General points

MANN Fuel filters are fine filters exclusively used in the main flow of fuel feed lines in engines. The filter fineness of the spin-on filter used here is in the μm range.

In normal operation fuel flows through both the spin-on filters which are fitted in parallel. The fuel filter can be switched on or off and this allows the possibility of exchanging filter element one after the other without a stop in operation.

4. Design

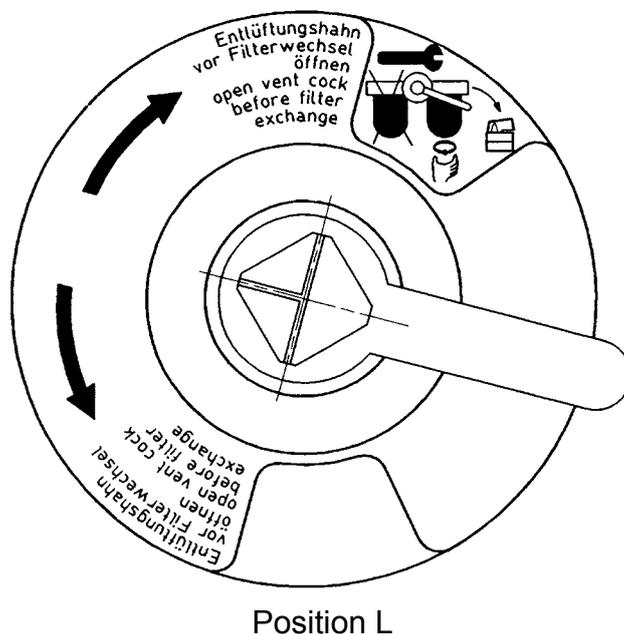
The filter mainly comprises a filter head with two connection flanges and mounting points, valves for switching and taking away the fuel pressure, as well as two spin-on filters.

5. Servicing

The time when to service depends on the specifications stipulated by the engine manufacturer, however, at least once per year, regardless of the service hours of the motor.

The following describes the sequence to exchange the right spin-on filter. The method is the same to replace the left spin-on filter.

- Turn tap wrench (see also customer drawing) counter-clockwise by approx. 75° to the stopper (position L). The symbol „right filter change allowed“ is now visible at the top right of the pictogram disc.



- Now filtration only takes place with the left filter element. Since only half the filter area is available, the pressure loss of the fuel filter increases accordingly.



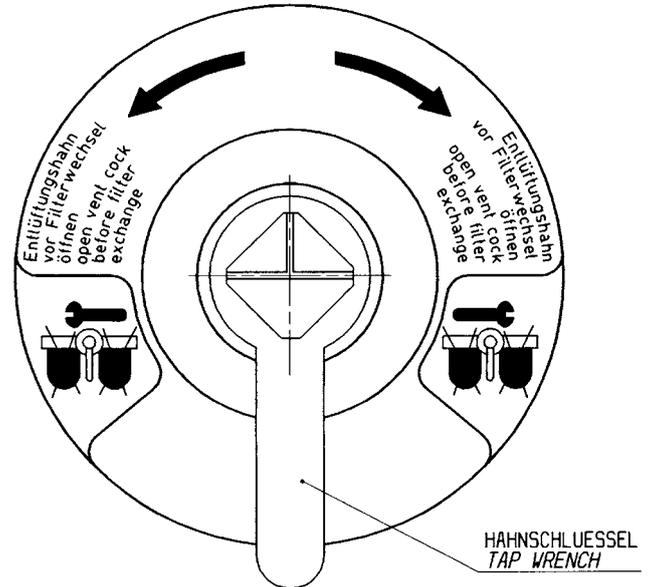
Due to danger of spraying and burning, appropriate protective clothing should be worn while carrying out the disassembly operation described below.



Due to danger of burning the fuel should be prevented from having contact with any hot engine parts (e.g. collection tray, or others).

- Slowly open vent cock (see also customer drawing) on the side of the element you wish to exchange.
- Pierce the right spin-on filter at the lowest place by means of an appropriate tool and collect the run out fuel.
- After totally emptying the spin-on filter by turning counter-clockwise with an appropriate release device, dispose of the element according to the prevailing environmental regulations.
- Clean the sealing surface on the filter head.
- Lightly oil the seal on the new spin-on filter.
- Screw on the new spin-on filter by hand until it rests against the seal.
- Tighten the spin-on filter with a further half turn (torque approx. 35 Nm).
- Slightly open both pressure compensation cocks (see also customer drawing) in order to fill the spin-on filter with fuel.

- As soon as fuel comes out of the vent pipe, close vent cock and both pressure compensation cocks.
- Place the tap wrench in the middle position (position N).

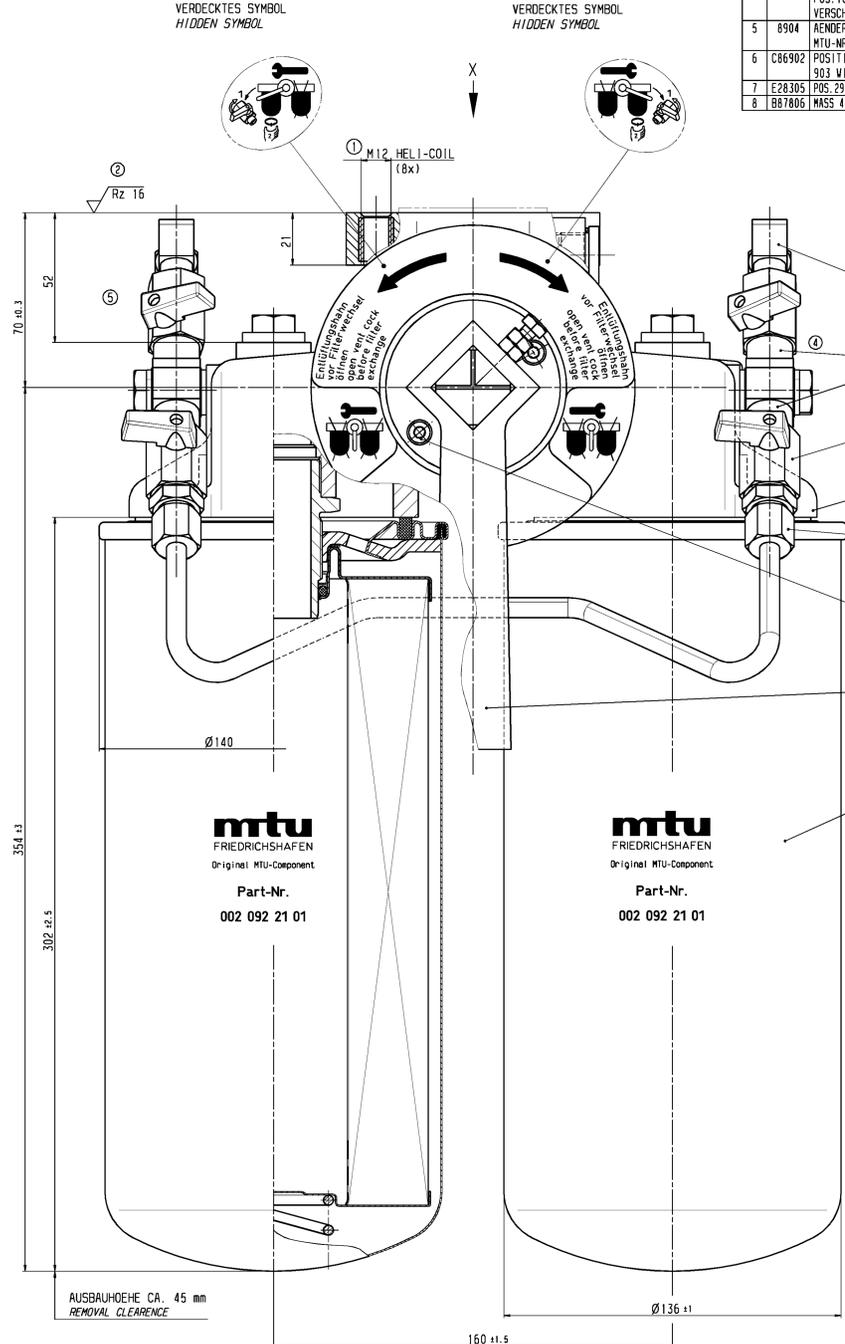
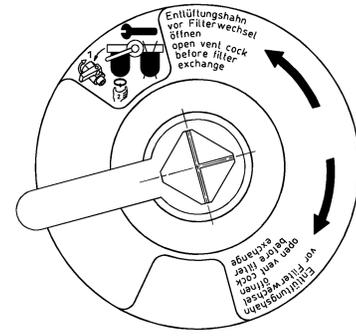
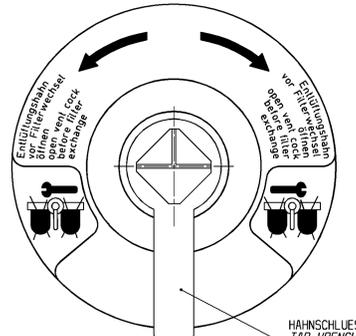
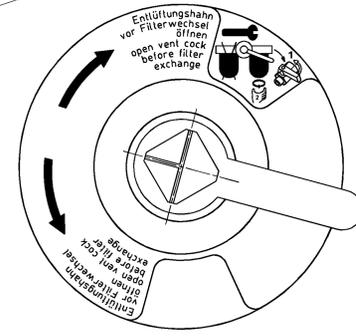
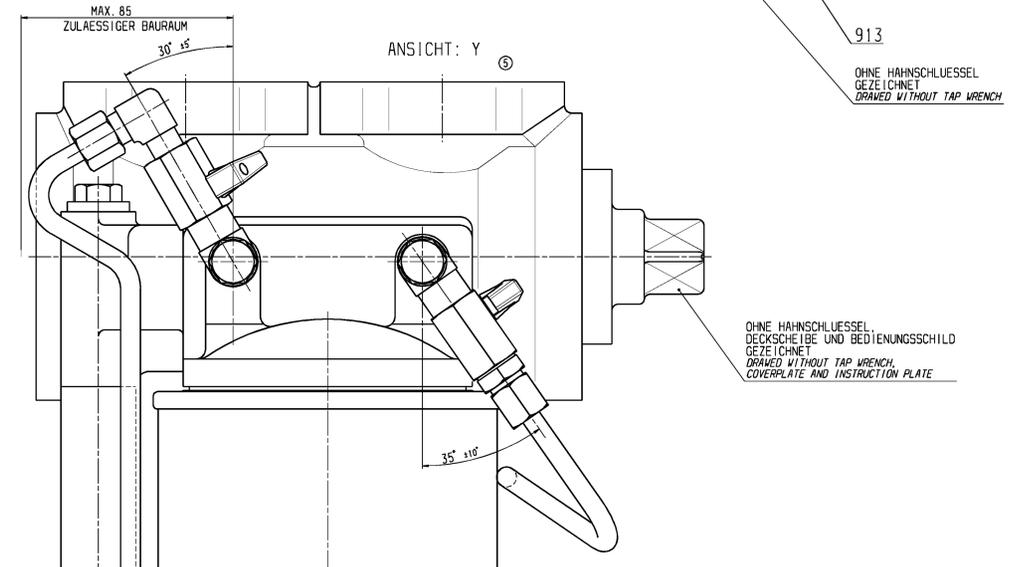
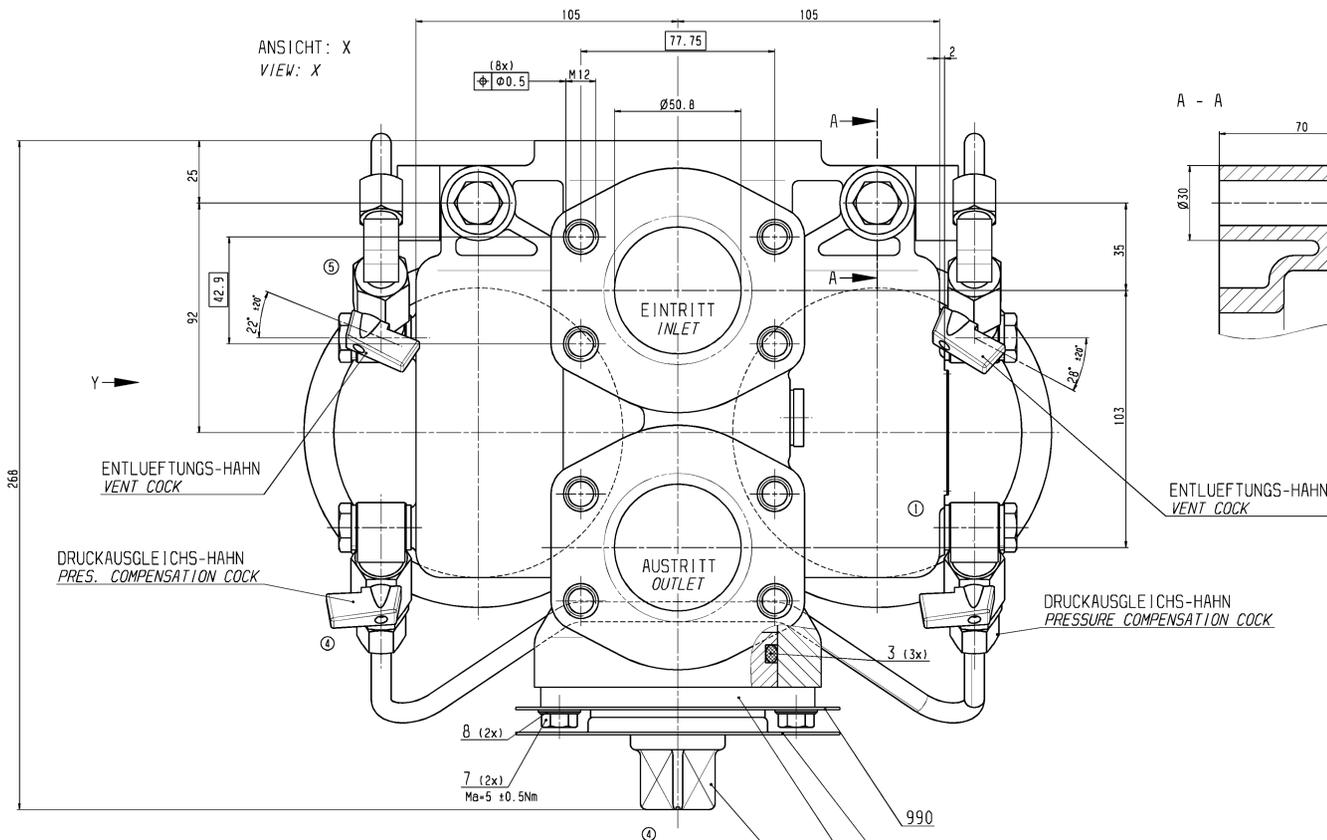


Position N

- Check filter to make sure there is no leakage.
- To exchange the left spin-on filters follow the same logical order and use the left vent cock and position R of the tap wrench.

6. Specifications / Spare parts

Please see customer drawings.



POS.	BENENNUNG	BESTELL-NR.	FREMD-NR.
POS.	NAME	PART-NO.	CUSTOMER-NO.
1	DECKSCHEIBE	26 130 72 991	
2	BEDIENUNGSSCHILD	26 130 72 981	
3	ABDECKSCHEIBE	24 050 42 232	
4	WECHSELFILTER	WOK 13 145 MTU 66 716 59 100	MTU-NR. 002 092 21 01
5	FILTERKOPF	67 730 31 133	MTU-NR. 000 092 55 08
6	VERSCHRAUBUNG	02 011 04 001	G 1/4
7	WINKELVERSCHRAUBUNG	02 011 03 001	G 1/4
8	KUGELHAHN	02 014 04 051	G 1/4
9	VERSCHRAUBUNG	21 013 15 251	R 1/4"
10	SCHLEIBE	01 762 05 000	DIN 433-8.4-140-HU-A2
11	ZYL.INDERSCHRAUBE	01 129 05 010	DIN 7984-M5x10-8.8-ZN3
12	HAHNSCHLUESSEL	26 024 61 102	SW 24
13	SCHLEIBE	01 761 08 000	DIN 433-8.4-140-HU-ZN12CC
14	SECHSKANTSCHRAUBE	01 036 08 025	DIN 933-M8x25-8.8-ZN8CC
15	O-RING	23 069 32 131	NBR

AE. NO.	AE. -M. CH.-NO.	ÄNDERUNG	DATE	BEARB.	GEPR.	GESEH.
1	8353	BOHRUNG M12 ENTF.; HELI-COIL HINZUGEF.; STUECKLISTE ERGAENZT; BETRIEBSUEBERDRUCK VON 20 AUF 8; BEDIENTUNGSSCHILD HINZU GEFUEGT	21.08.00	RAUSCH	JÄGER	VOLF
2	8452	BEARBEITUNGSANGABE VON RZ25 IN RZ16	16.10.00	HELFF	JÄGER	VOLF
3	8474	SACHNUMMERN GEÄNDERT	31.10.00	JÄGER	VOLF	VOLF
4	8663	GEWINDESTIFT DURCH SECHSKANTSCHRAUBE MIT KONTERMUTTERN ERSETZT POS.10 GEKURZT; POS. 4, 11, 16, 17, 902/2 ENTFALLEN VERSCHRAUBUNGEN; ROHRLÄNGEN UND POS. 29 - 31 ERGAENZT	14.03.01	HELFFERICH	JÄGER	VOLF
5	8904	ÄNDERUNG DER ROHRLÄNGEN NACH KUNDENWUNSCH; ANSICHT Y NEU MTU-NR. 002 092 20 01 IN 002 092 36 01; HALTER IN ANSICHT Y NEU	04.09.01	HELFFERICH	ANDRES	VOLF
6	C6902	POSITION-ÄNDERUNG: 10 WIRD 116; 900 WIRD 911; 901 WIRD 908; 903 WIRD 900; 30 WIRD 185	11.09.02	HELFFERICH	JÄGER	VOLF
7	E28305	POS. 29 IN ERSATZTEILLISTE ENTFALLEN / POS. 29 IN PART LIST NOT APPLICABLE	11.11.05	HELFFERICH	JÄGER	VOLF
8	B87806	MASS 40 EINMETREN KUNDENWUNSCH / DIMENSION 40 ADDED CUSTOMER WISH	19.04.06	RAUSCH	ANDRES	

FORM- UND LAGETOLERANZEN TOLERANCES OF FORM AND POSITION NACH ACCORDING TO ISO 1101

WERKSTUECKKANTEN VORRUECKE EDGES NACH ACCORDING TO DIN 6784

MASS-STAEB SCALE: 1:1

ANGEBOTSZEICHNUNG CUSTOMER DRAWING

SCHUTZMERK DIN 34 PROTECTION MARK ACCORDING TO DIN 34

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ABT./DEPT. 51-E4 DATUM DATE 04.11.99 NAME RAUSCH

BEARB./DRAWN 04.11.99 RAUSCH

GEPR./CHECK 12.11.99 WOLF

GESEH./APP. 12.11.99 WOLF

FILTERWERK MANN+HUMMEL GMBH 0-71631 LUDWIGSBURG

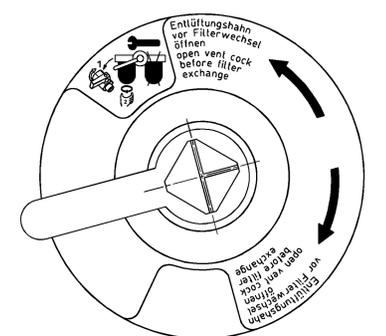
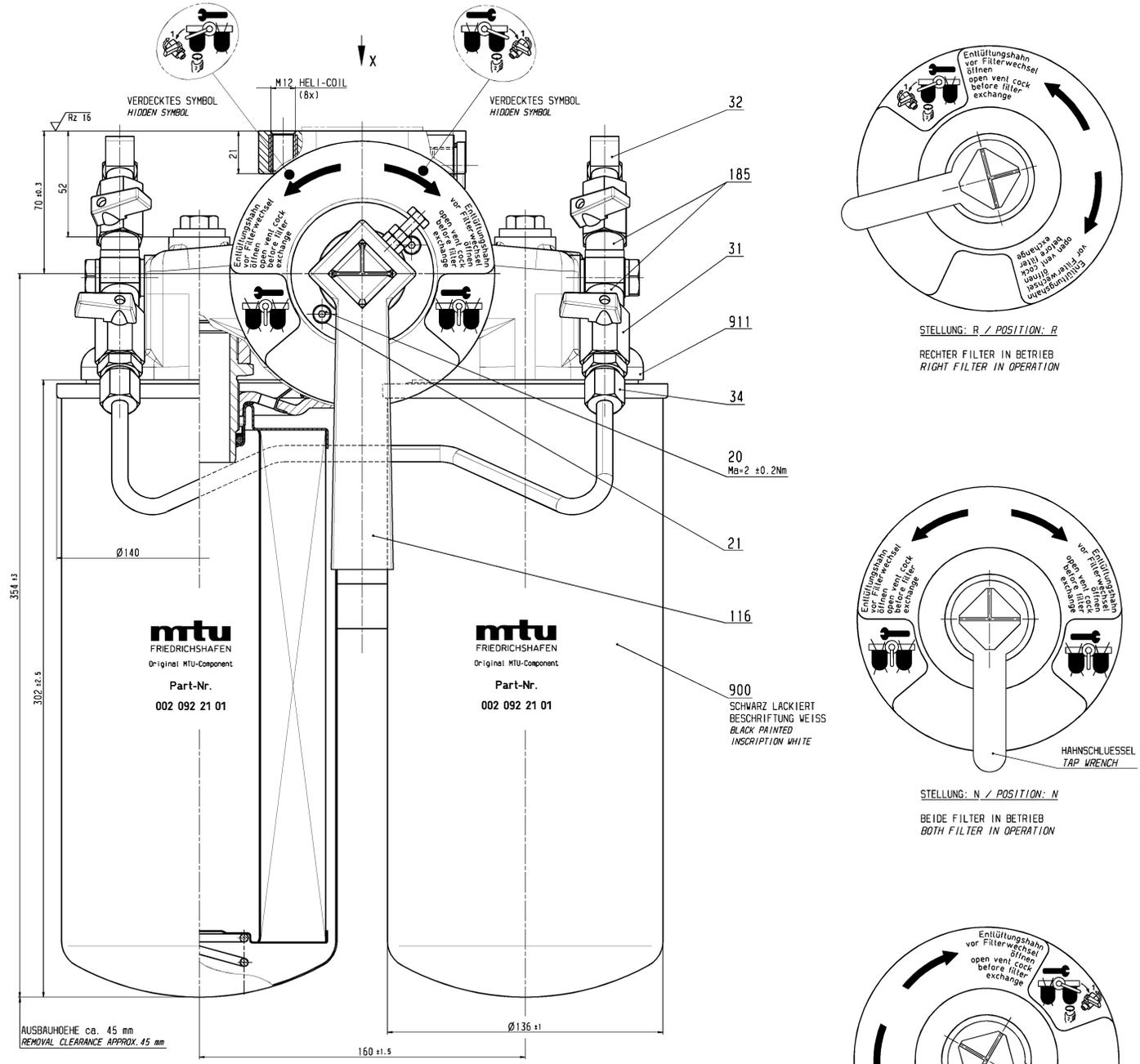
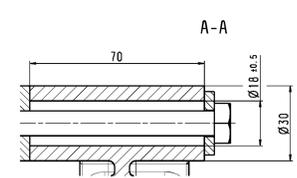
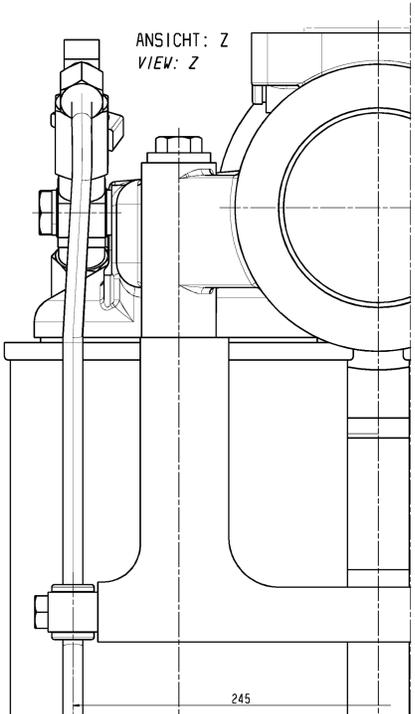
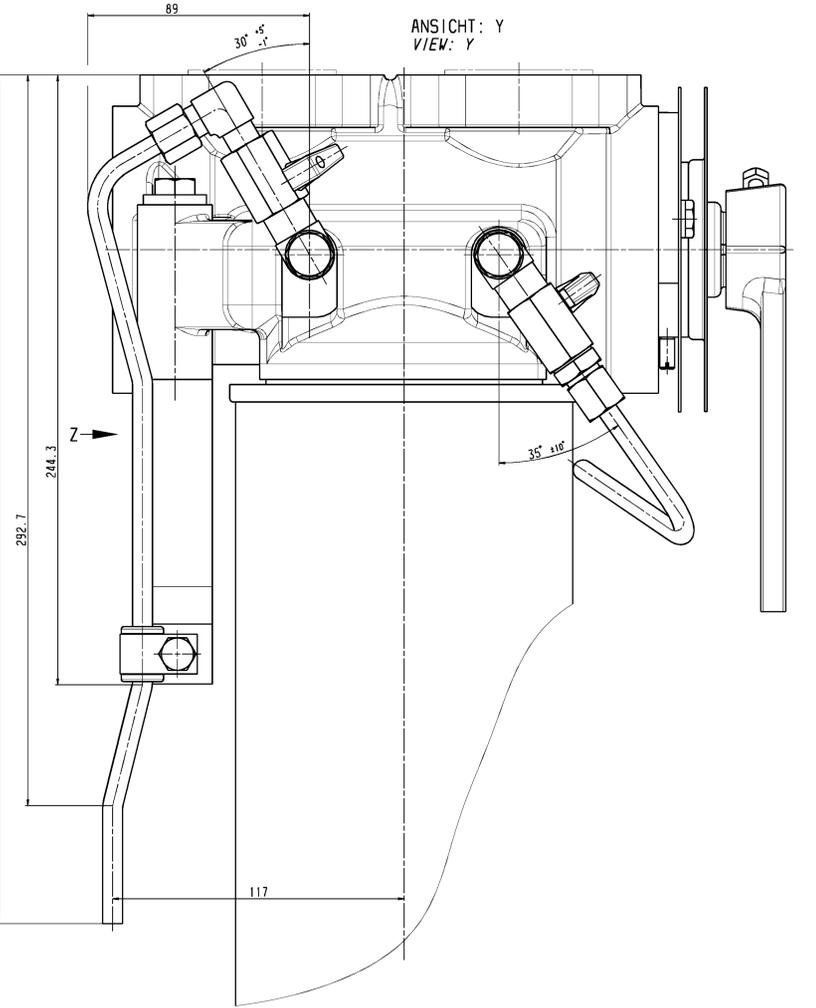
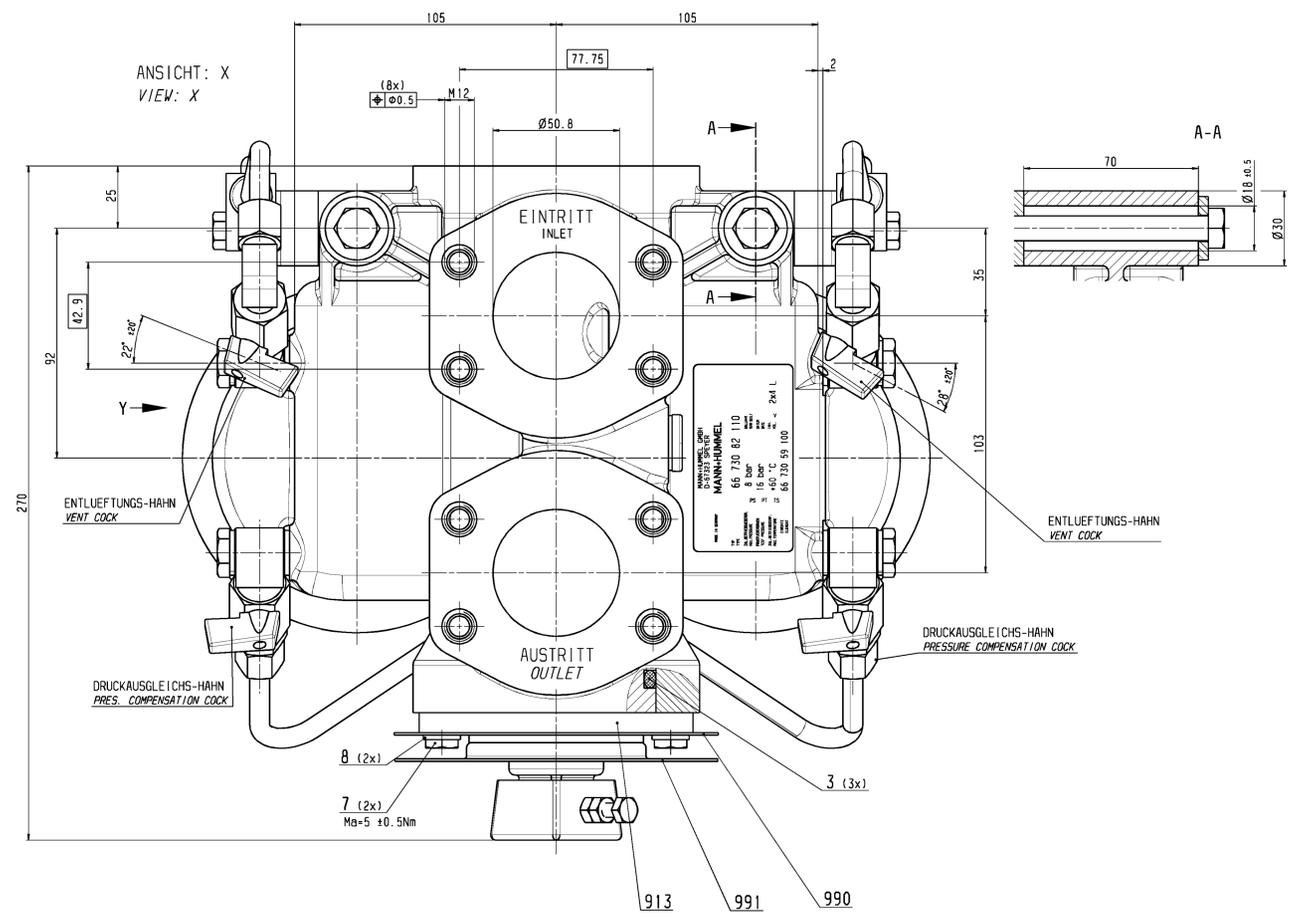
ZEICHNUNGS-NR. DRAWING-NO. 66 730 82 100

BLATT SHEET 1

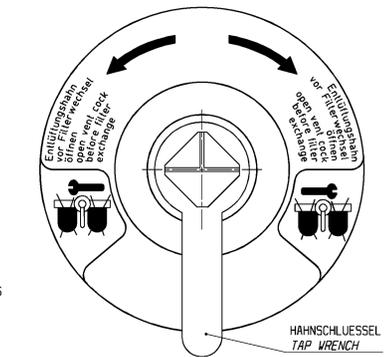
RE. NO. 08

PROGRAMM-NR. / PROGRAM-NO. REINLICH / SIMILAR

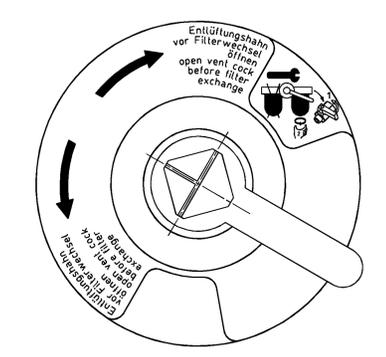
ERSATZ FUER / SUBSTITUTE FOR 9667308001



STELLUNG: R / POSITION: R
RECHTER FILTER IN BETRIEB
RIGHT FILTER IN OPERATION



STELLUNG: N / POSITION: N
BEIDE FILTER IN BETRIEB
BOTH FILTER IN OPERATION



STELLUNG: L / POSITION: L
LINKER FILTER IN BETRIEB
LEFT FILTER IN OPERATION

ZUL. BETRIEBSBEREICH 8 bar
ZUL. BETRIEBSTEMPERATUR -25 °C BIS +60 °C

BETRIEBSMEDIUM: DIESELKRAFTSTOFF NACH DIN EN 590 ODER
ASTM D975 NR. 1D ODER 2D ODER
MARINE DIESEL FUEL (MDF)
BIS DMC NACH ISO 82 17

ENDPRUEFUNG:
100%-ige DICHTIGKEITSPRUEFUNG
6 bar LUFT UNTER WASSER
NACH MFN 620 010

OPERATING PRESSURE MAX. 8 bar
OPERATING TEMPERATURE MAX. -25 °C TO +60 °C

OPERATING MEDIUM: DIESEL FUEL ACC. TO DIN EN 590 OR
ASTM D975 No. 1D OR 2D ODER
MARINE DIESEL FUEL (MDF) TO DMC
ACC. TO ISO 82 17

FINAL TEST:
100% TEST OF CONSISTENCE
6 bar AIR UNDER WATER
ACC. TO MFN 620 010

991	DECKSCHEIBE COVER PLATE	26 130 72 991	
990	BEDIENUNGSCHILD INSTRUCTION PLATE	26 130 72 981	
913	ABDECKSCHEIBE COVER PLATE	24 050 42 232	
900	WECHSELFILTER SPIN-ON FILTER	WOK 13 145 MTU 66 716 59 100	MTU-NR. 002 092 21 01
911	FILTERKOPF FILTERING JUG ASSY	67 730 31 133	MTU-NR. 000 092 55 08
34	VERSCHRAUBUNG THREADED ASSEMBLY	02 011 04 001	G 1/4
32	WINKELVERSCHRAUBUNG ANGLE THREADED ASSEMBLY	02 011 03 001	G 1/4
31	KUGELHAHN BALL VALVE	02 014 04 051	G 1/4
185	VERSCHRAUBUNG THREADED ASSEMBLY	21 013 15 251	R 1/4"
21	SCHLEIBE DISC	01 762 05 000	DIN 433-5-3-140 HU-A2
20	ZYLINDERSCHRAUBE CHEESE HEAD	01 129 05 010	DIN 7984-M5x10-8-8-ZN3
116	HÄHNCHENSCHLÜSSEL TAP WRENCH	26 024 61 102	SW 24
8	SCHLEIBE DISK	01 761 08 000	DIN 433-8-4-140-HU-ZN12CC
7	SECHSKANTSCHRAUBE HEXAGON SCREW	01 036 08 025	DIN 933-M8x25-8-8-ZN8CC
3	O-RING O-RING	23 069 32 131	NBR
POS.	BENENNUNG NAME	BESTELL-NR. PART-NO.	FREMD-NR. CUSTOMER-NO.

FORM- UND LAGETOLERANZEN
TOLERANCES OF FORM AND POSITION
NACH ACCORDING TO ISO 1101

ISO 128

OBERFLÄCHEN / SURFACES
NACH ACCORDING TO ISO 1302

WERKSTÜCKKANTEN
WORKPIECE EDGES
NACH ACCORDING TO ISO 13715

MASS- STAB
SCALE
1:1

ABT./DEPT.
SI-E2

DATUM
DATE

NAME
NAME

BEARB./DRAWN
18.07.05 HELFF

GEPR./CHECKED
14.11.05 RAEBER, MA

GESEH./APP.
14.11.05 WOLF

BENENNUNG / NAME
ANBOTSZEICHNUNG
CUSTOMER DRAWING

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MANN
KRAFTSTOFFFILTER
FUEL FILTER

ZEICHNUNGS-NR.
DRAWING-NO.
66 730 82 110

BLATT / SHEET
1

RE-NR.
NO.
100

PROGRAMM-NR. / PROGRAM-NO.
MANN
BO-71631 LUDWIGSBURG

ÄHNLICH / SIMILAR
ERSATZFUER / SUBSTITUTE FOR

ERSATZTEILLISTE / SPARE PARTS LIST