

TECHNICAL DATA

WORKING MEDIUM :AIR

1 SUPPLY OF ENERGY (INCL. ROUGH-TEXTURED DIRT FILTER)

21-28 DELIVERY OF ENERGY

31-32 EXHAUST

WORKING PRESSURE (SUPPLY): $P_e = 4.5 \dots 10 \text{ bar}$

THERMAL RANGE OF APPLICATION : $-40^\circ\text{C} \dots +130^\circ\text{C}$ TEMPORARY: $+150^\circ\text{C}$

PORT 1 / 24: VOSS 232 NG12 HT (FOR REASSEMBLY AFTER DISASSEMBLY USE TORQUE 17+4 Nm)

PORT 21 / 22 / 23: THREAD FOR VOSS 232 NG8

VOLTAGE : $24^{+8}_{-8} \text{ V DC}$ (RESTRICTION OF SOLENOID VALVES SEE: doc.035)

TYPE OF CURRENT :DIRECT CURRENT

- ① MIN. MEASUREMENT RANGE
② MAX. MEASUREMENT RANGE

AUTOMOTIVE COORDINATE SYSTEM

NORMAL INSTALLATION LIKE SHOWN BESIDE (ALLOWED VARIATION $\pm 10^\circ$ TILT ABOUT Y-AXIS)

PERMITTED RANGE OF USE: COMMERCIAL VEHICLE

PERMITTED MOUNTING LOCATION: GEARBOX, CHASSIS

SURFACES OF THE PINS WITHOUT PASSIVATION

TARNISHING OF THE PIN SURFACES IS ALLOWED

MEASURING RANGE INCLINATION SENSOR IN NORMAL INSTALLATION $\pm 30^\circ$

PAINT OF THE DEVICE NOT ALLOWED

DIVERGENCE OF THE INSTALLATION POSITION REQUIRE APPROVAL AND WRITTEN AGREEMENT BY WABCO

THE PERMITTED MECHANICAL INTERFACE TO VEHICLE AND THE DEFINED INSERTION FORCE HAVE IN CASE OF DEVIATION TO BE DISCUSSED WITH WABCO

IT HAS TO BE ASSURED THAT WATER CAN NOT INFILTRATE THROUGH WIRING HARNESS INTO THE CONTROL UNIT

CONNECTOR SYSTEM REQUESTED BY CUSTOMER

CONNECTOR ACCORDING INTERFACE DRAWING: X1 / X2; 21 POLIG: C-114-18085-027 REVISION:G, CODING: A-C/A-D

INTERFACE DRAWING TAB: C-114-18230-002 VERSION 2A REV. C

THE WIRING HARNESS PLUG IS NOT INCLUDED IN DELIVERY

③ TEST ACC. TO TEST INSTRUCTION 446 995 402 2 DOC. CODE 023

④ HOLE FOR IDENTIFICATION OF MACHINING PERMISSIBLE

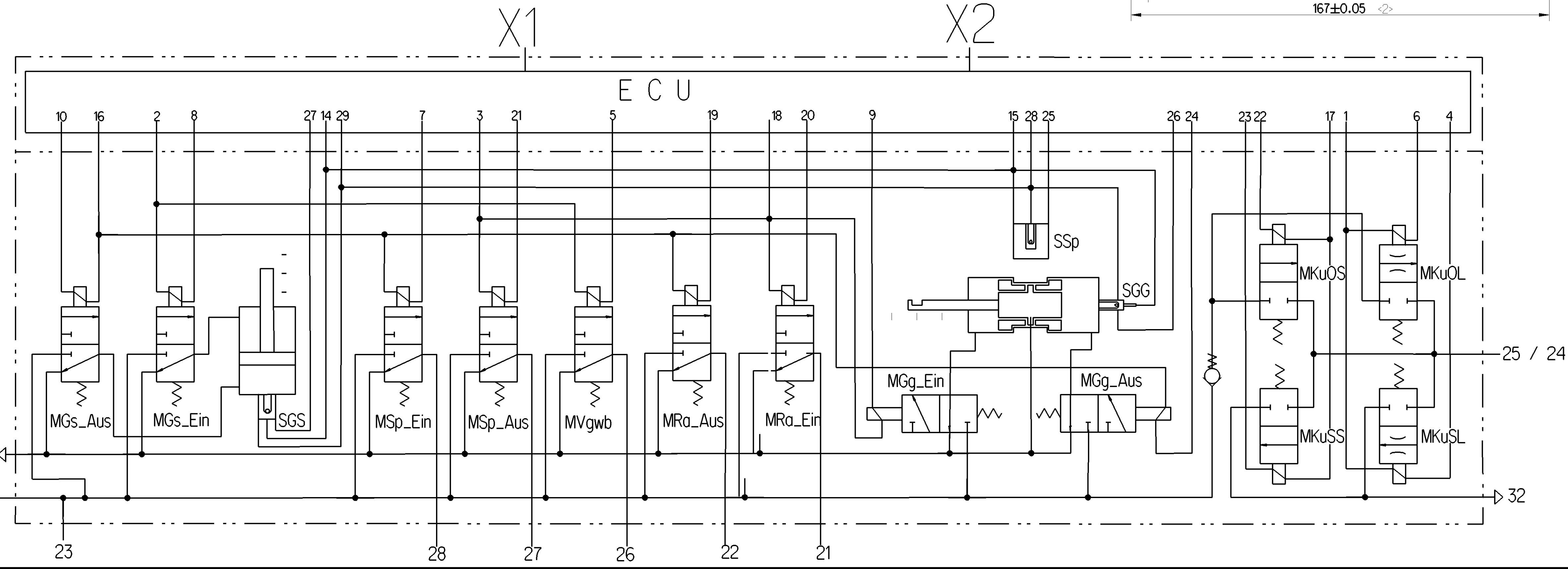
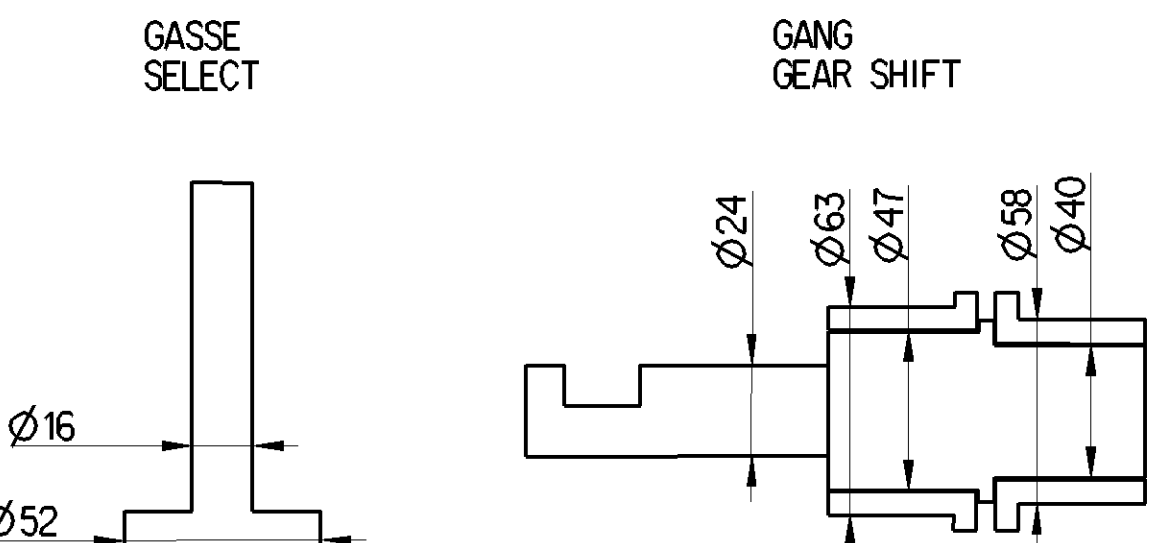
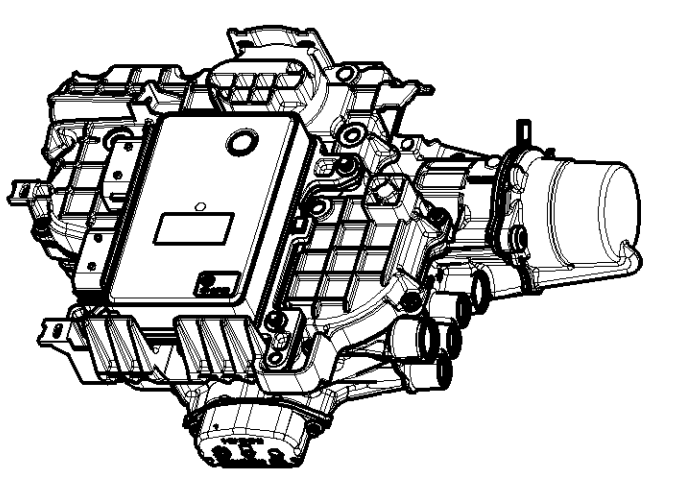
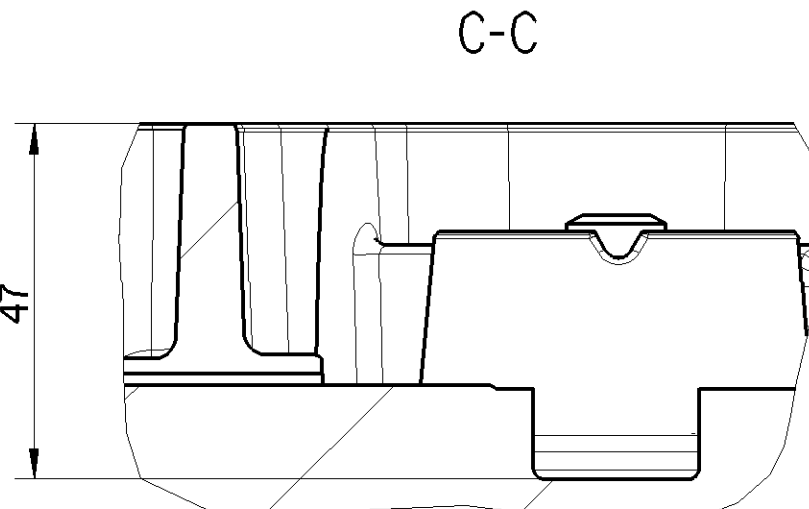
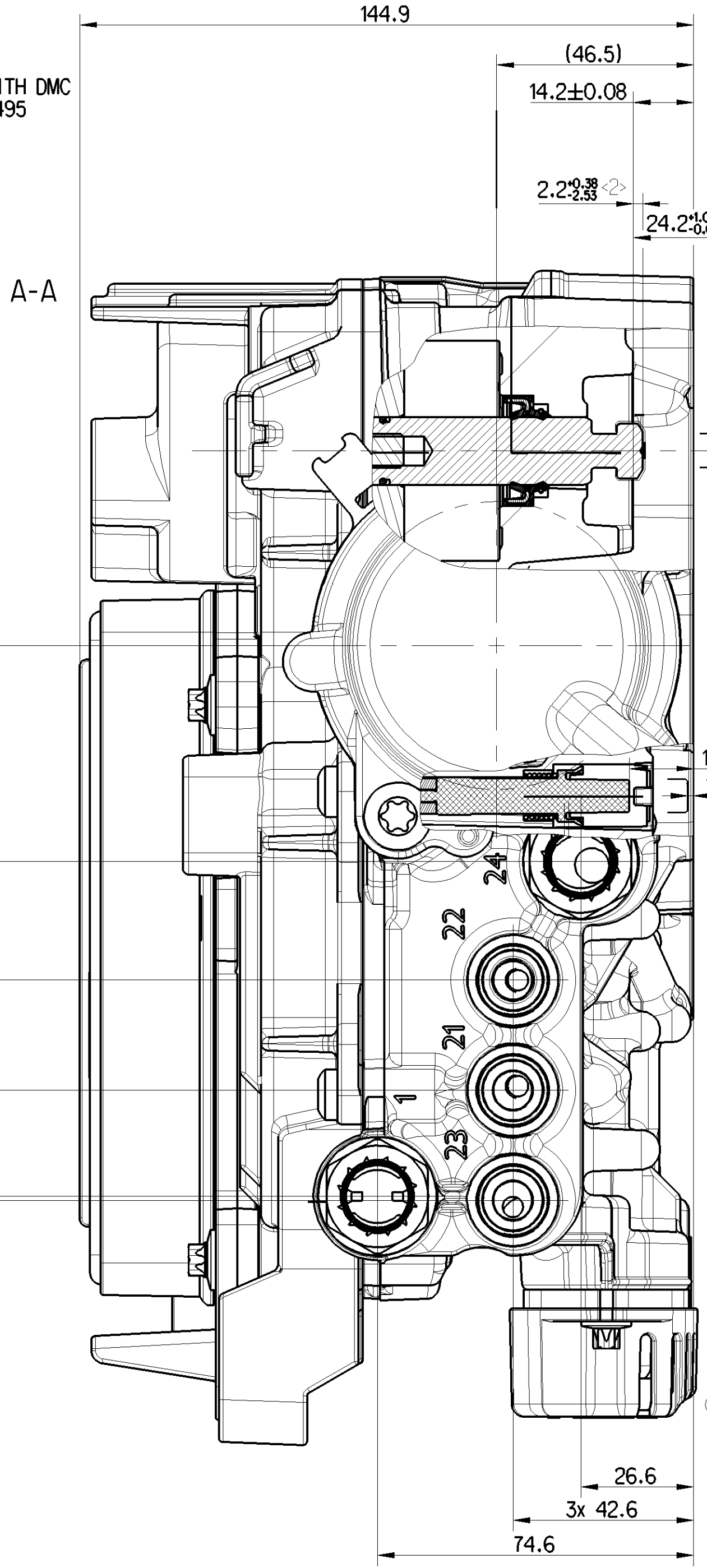
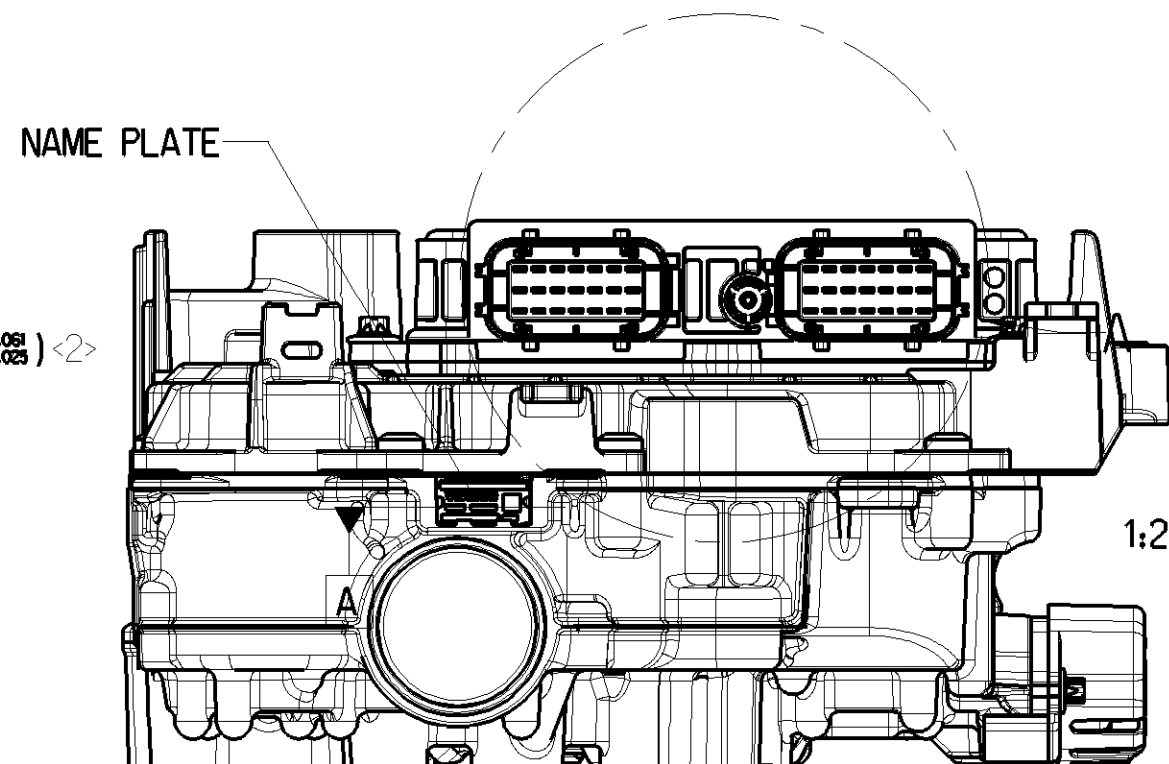
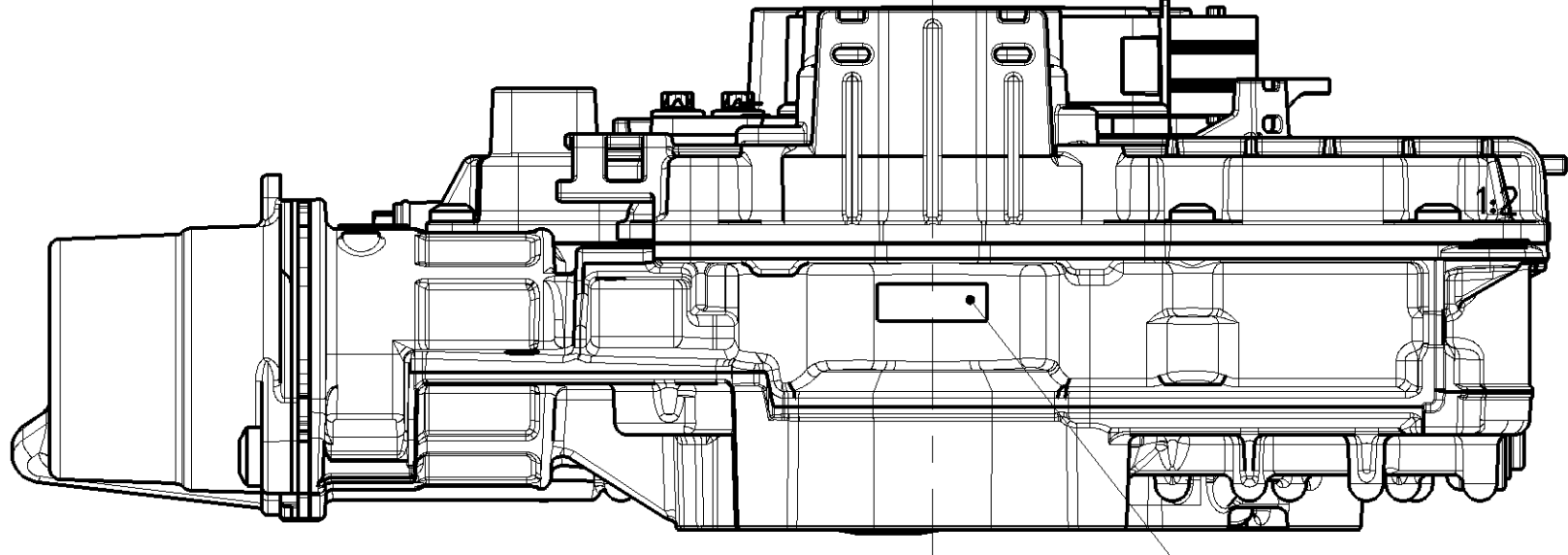
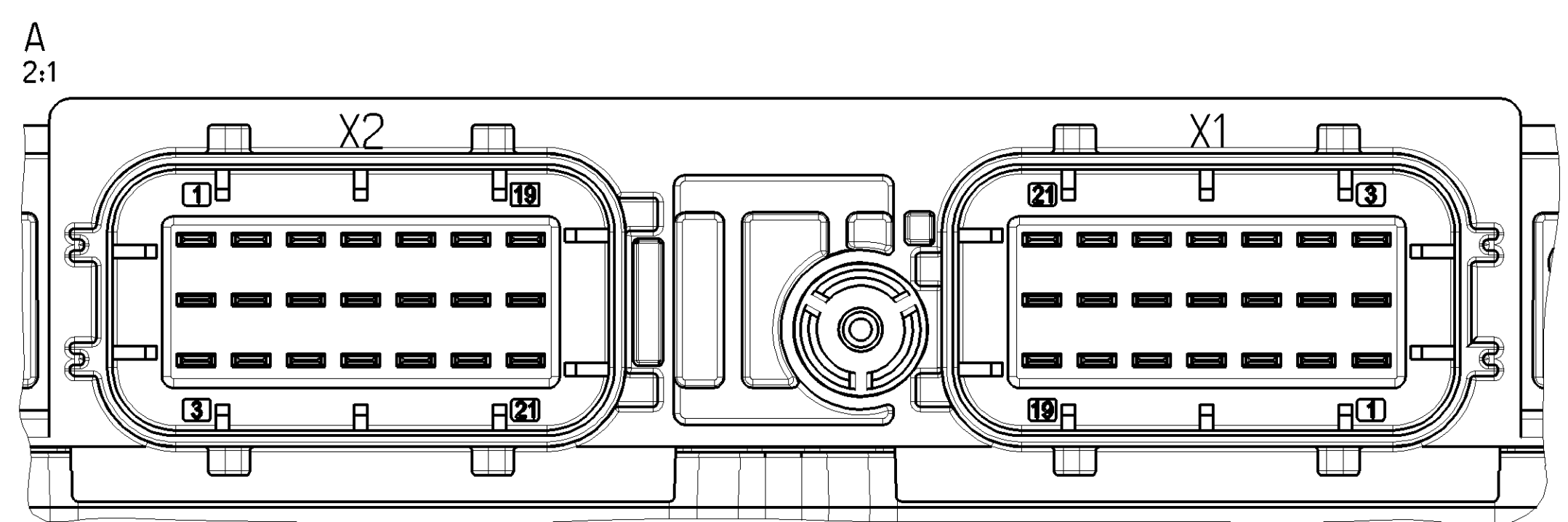
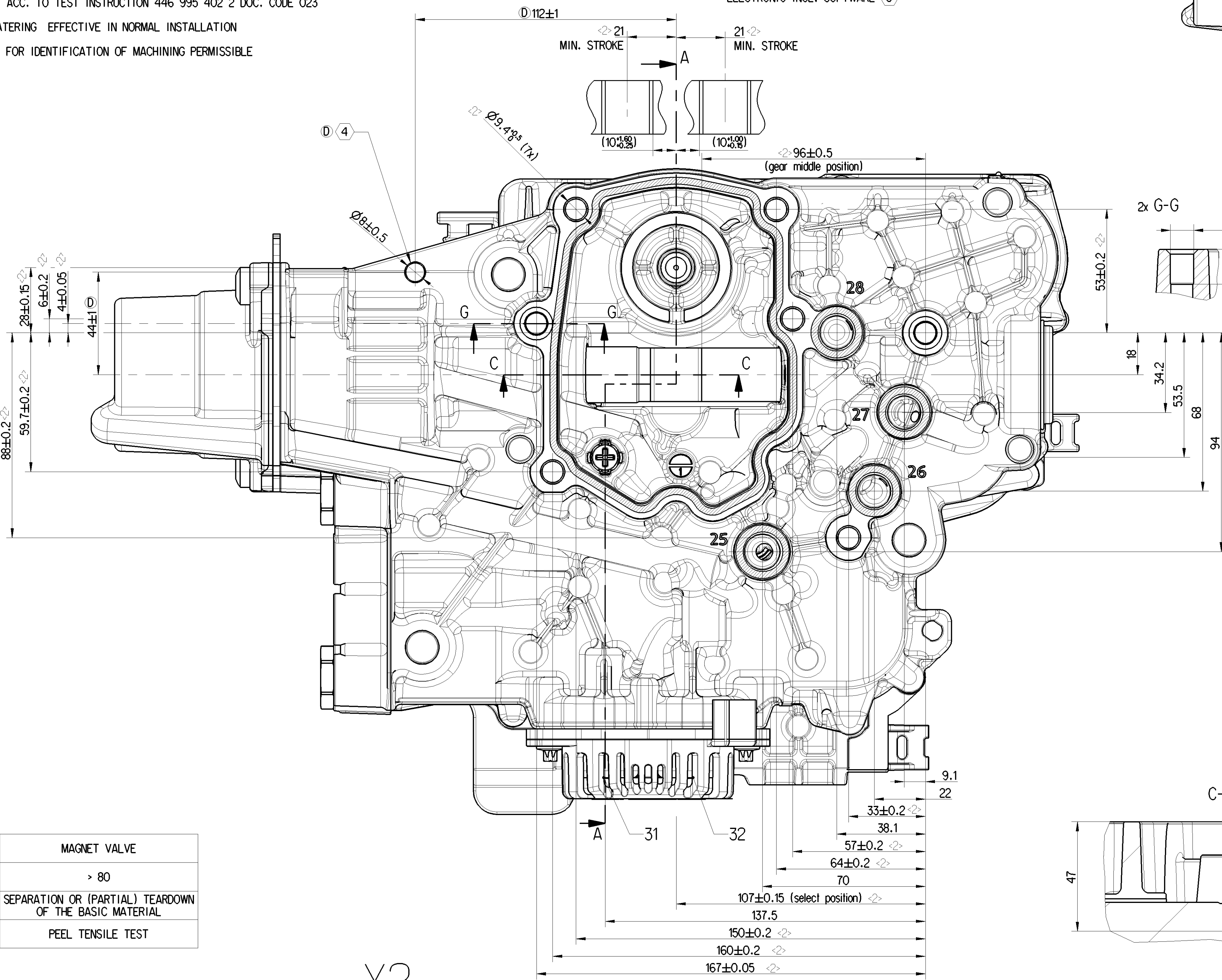
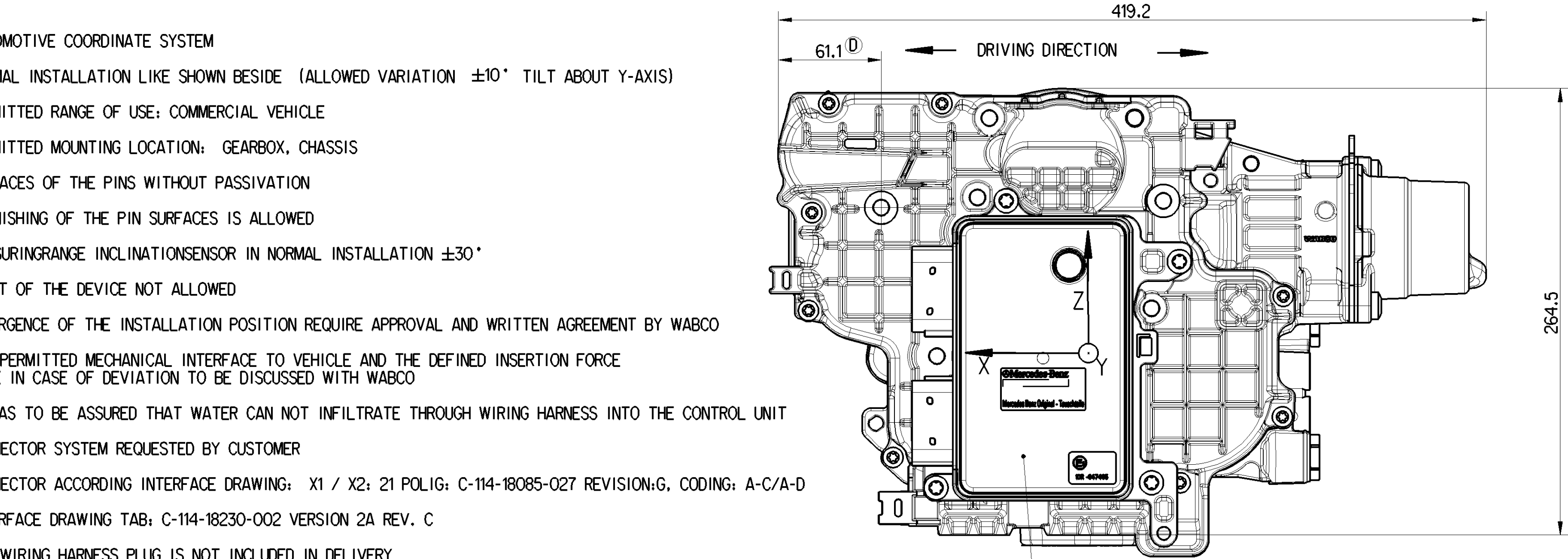
3/2 SOLENOID : $MGs_Ein / MGs_Aus / MRo_Ein / MRo_Aus / MSp_Ein / MSp_Aus$ (restricted on $\varnothing 1.2 \text{ mm}$)
SUPPLY : 2.54 mm^2 ($\varnothing 1.8 \text{ mm}$)
EXHAUST: 2.54 mm^2 ($\varnothing 1.8 \text{ mm}$)
RELATIVE DUTY CYCLE (90°C and 24V): 25%

3/2 SOLENOID : $MGg_Ein / MGg_Aus / MVgwb$
SUPPLY : 4.9 mm^2 ($\varnothing 2.5 \text{ mm}$)
EXHAUST: 4.9 mm^2 ($\varnothing 2.5 \text{ mm}$)
RELATIVE DUTY CYCLE (90°C and 24V): 25%

2/2 SOLENOID : $MKuOL / MKuSL$
SUPPLY : 4.9 mm^2 ($\varnothing 2.5 \text{ mm}$)
EXHAUST: 4.9 mm^2 ($\varnothing 2.5 \text{ mm}$)
RELATIVE DUTY CYCLE (90°C and 24V): 15%

2/2 SOLENOID : $MKuOS / MKuSS$
SUPPLY : 9.62 mm^2 ($\varnothing 3.5 \text{ mm}$)
EXHAUST: 9.62 mm^2 ($\varnothing 3.5 \text{ mm}$)
RELATIVE DUTY CYCLE (90°C and 24V): 15%

WELDED CONNECTION	SOCKET PLUG	PLCD MODULE	MAGNET VALVE
PULL-OFF FORCE (N)	> 70	> 90	> 80
WRECKING BEHAVIOUR	SEPARATION OR (PARTIAL) TEARDOWN OF THE BASIC MATERIAL	SEPARATION OR (PARTIAL) TEARDOWN OF THE BASIC MATERIAL	SEPARATION OR (PARTIAL) TEARDOWN OF THE BASIC MATERIAL
TEST METHOD	PEEL TENSILE TEST	PEEL TENSILE TEST	PEEL TENSILE TEST



SAFETY CHARACTERISTICS		0
SIGNIFICANT CHARACTERISTICS		22
PIN	PIN ASSIGNMENT	
	X2	X1
1	DZVGW	KL30A-1
2	U-DZVGW	KL30B-2
3	U-DZHAW	KL30B-1
4	GND (SKU)	KL15
5	U-SKU	EXTUBAT
6	DZHAW	KL30A-2
7	SKU	CAN1-GND-1
8	SKU2	CAN1-GND-2
9	SSF	
10	SRA	CANTWF-H
11	PVERS2	CANTWF-L
12	GND (S)	
13	DZSF	D3
14	TMP-FSS	CAN2-L
15	DZAW	CAN2-H
16	MSFB	KL31B-2
17	EXTUBAT	CAN2-GND-2
18	GND (TMP+AW)	CAN2-GND-1
19	MSFA	KL31A-1
20	GRS-G2	KL31A-2
21	GRS-G3	KL31B-1

REMANUFACTURED DEVICE

DAG PN	A 961 260 62 63 87
WABCO PN	421 353 400 R

General Specifications: 421-353-1, Size ISO 15414-1		Copyright WABCO®	
Further Technical Data: 421 353 400 R	Doc. Code: 0350	Date: 2019-03-26	Signature: F. Dobrowski
General Tolerances: 421-201	Sheets: 1 To 27	Drawn: 2019-03-26	Checked: G. J.
Range of Nominal Dimensions (± mm)		Export: 2019-03-26	Sealers: 2019-03-26
Class	to ± 50	to ± 180	to ± 400
Fine	0.5	1.0	1.5
Medium	1.0	2.0	3.0
Coarse	2.0	3.5	5.0
Tap holes acc. JED-152			
Tolerance Class Applied: 421-201			
REMANUFACTURED DEVICE		REMANUFACTURED GEARBOX ACTUATOR	
WABCO PN 421 353 400 R		New AMT HD 24V	
Material No.	421 353 400 R	Date of first issue:	2019-03-26
Doc. Code:	005	Language:	EN
Sheet:	1/1	Revision:	1/1
Size:	A 0	Scale:	1:1
Drawn:	CREO	Checked:	500932
Drawn:	500932	Drawn:	7x
Drawn:	500932	Drawn:	7x
Drawn:	500932	Drawn:	7x