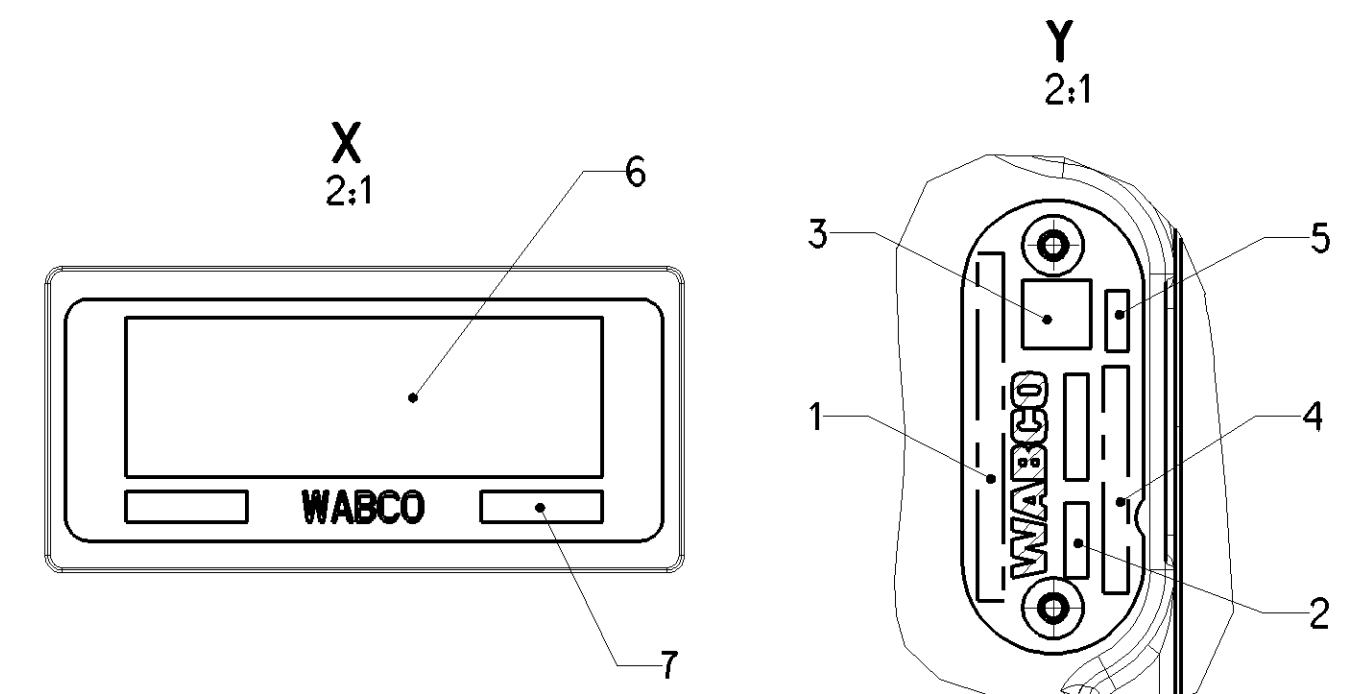
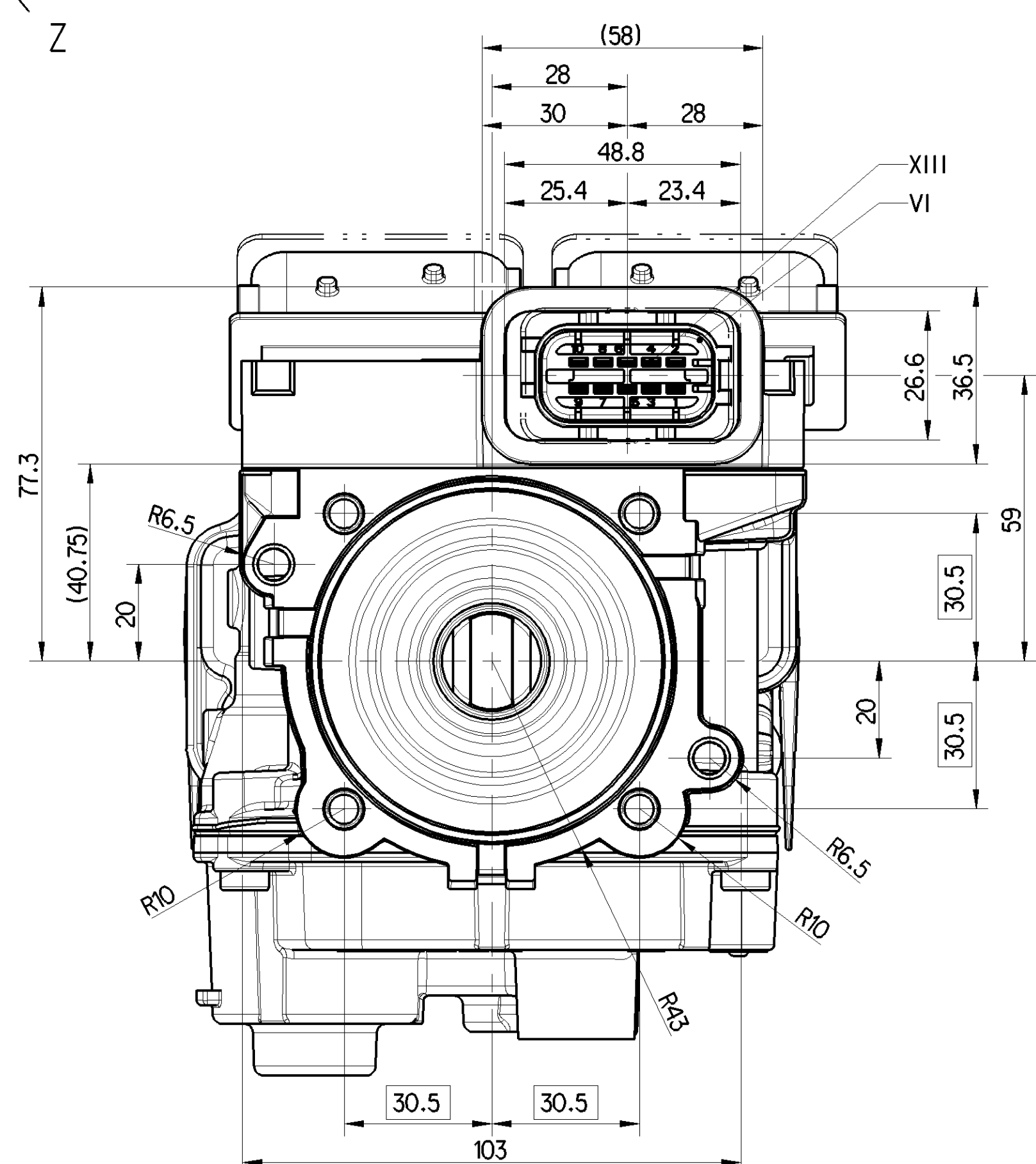
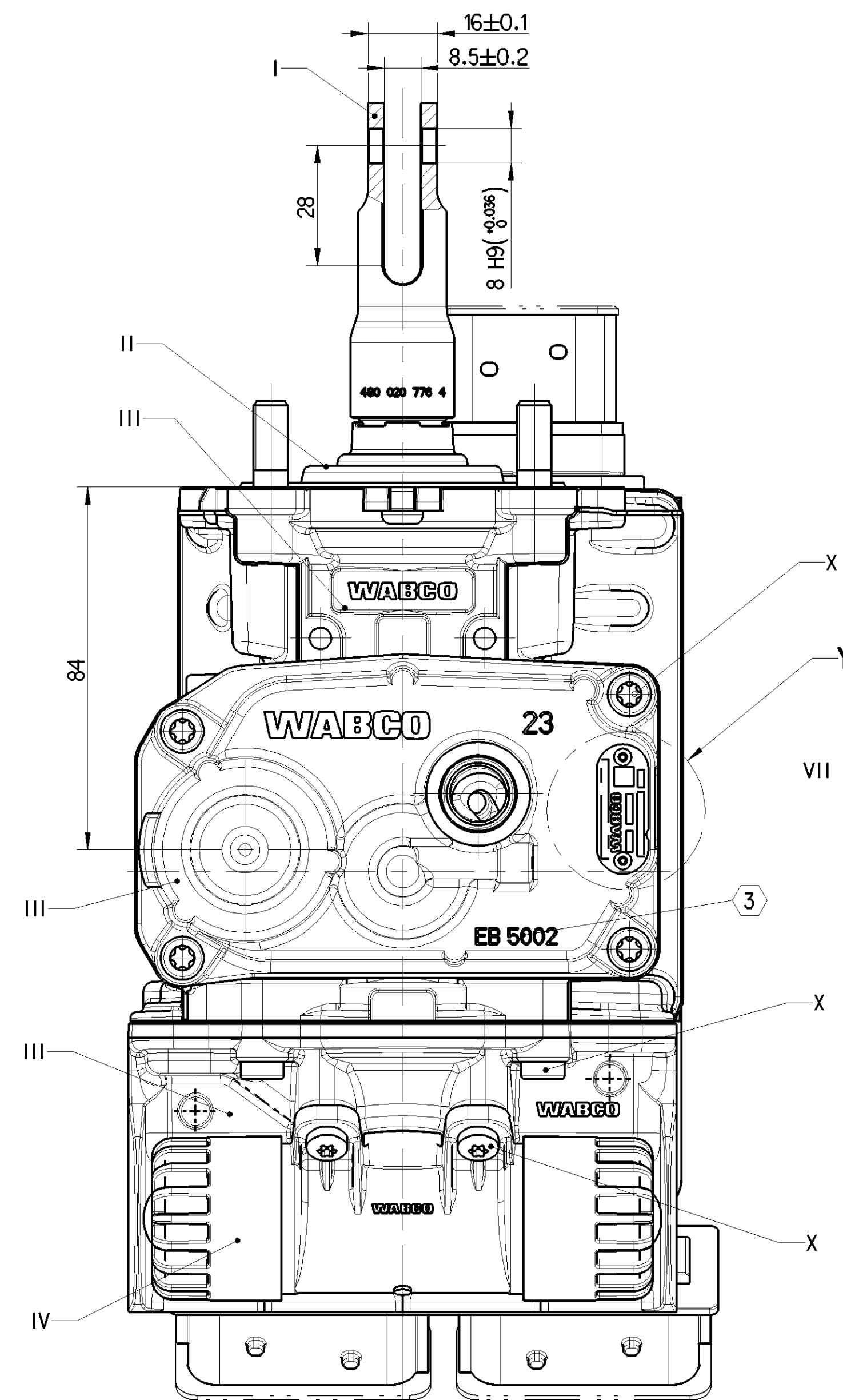
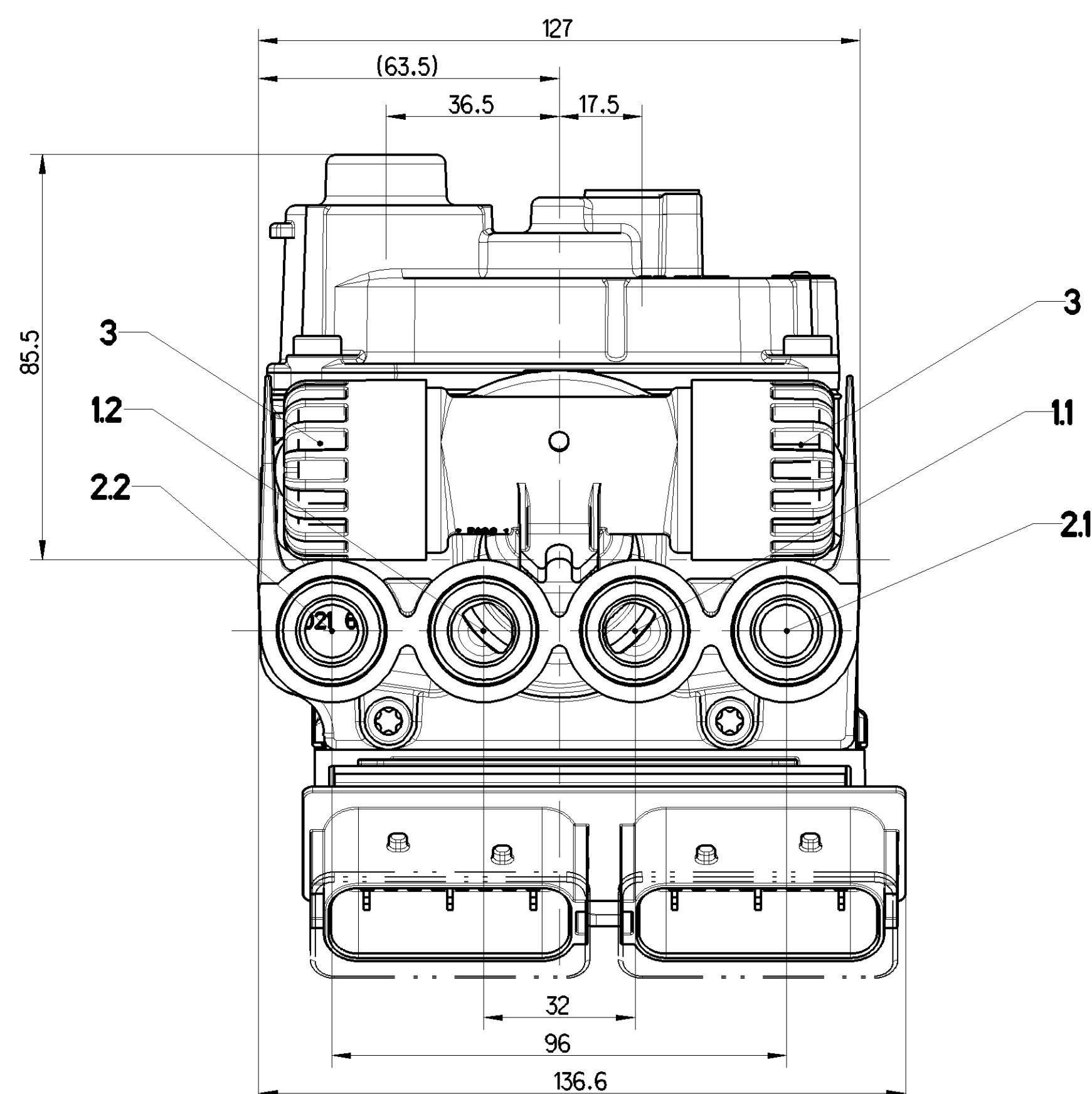
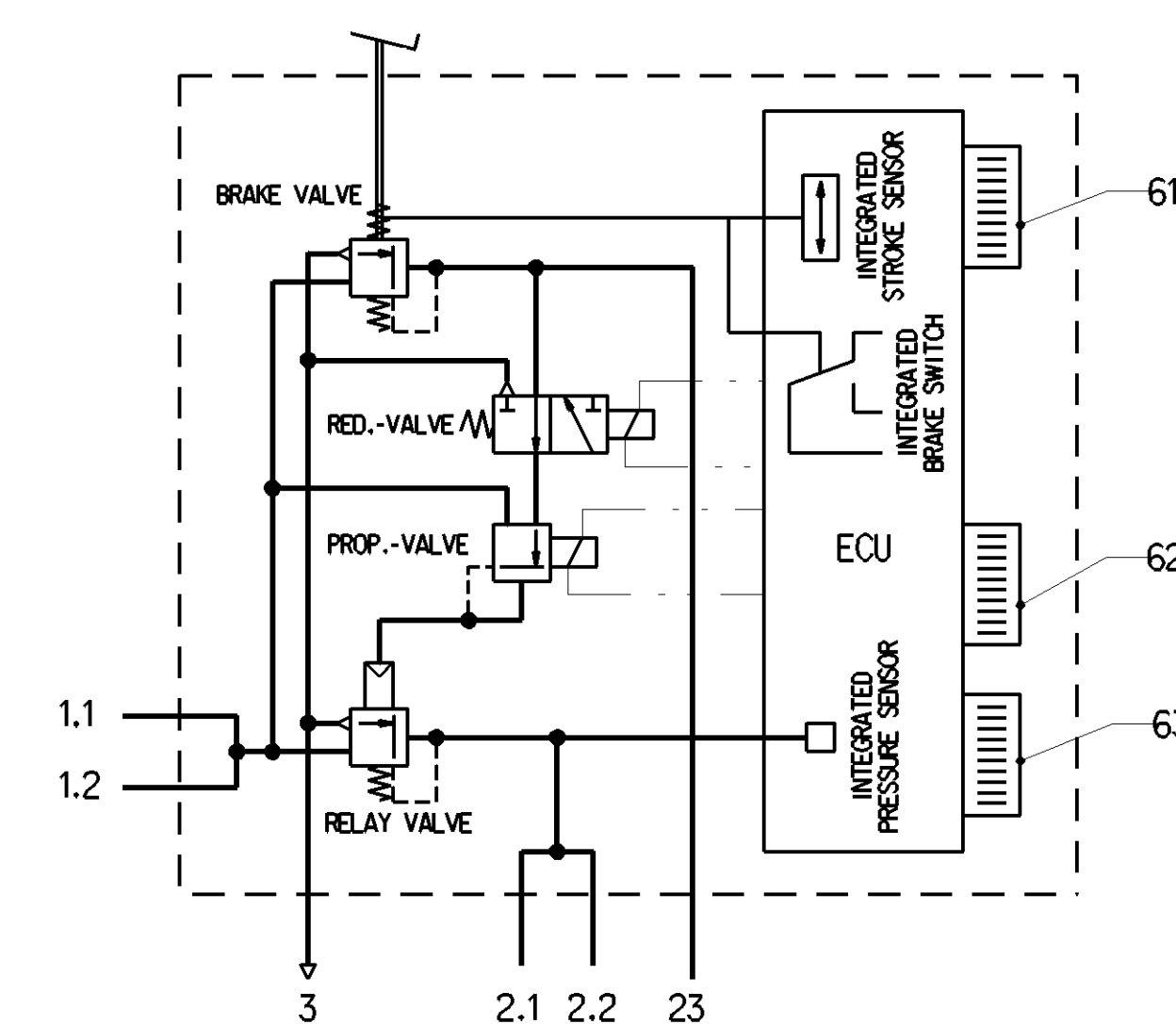
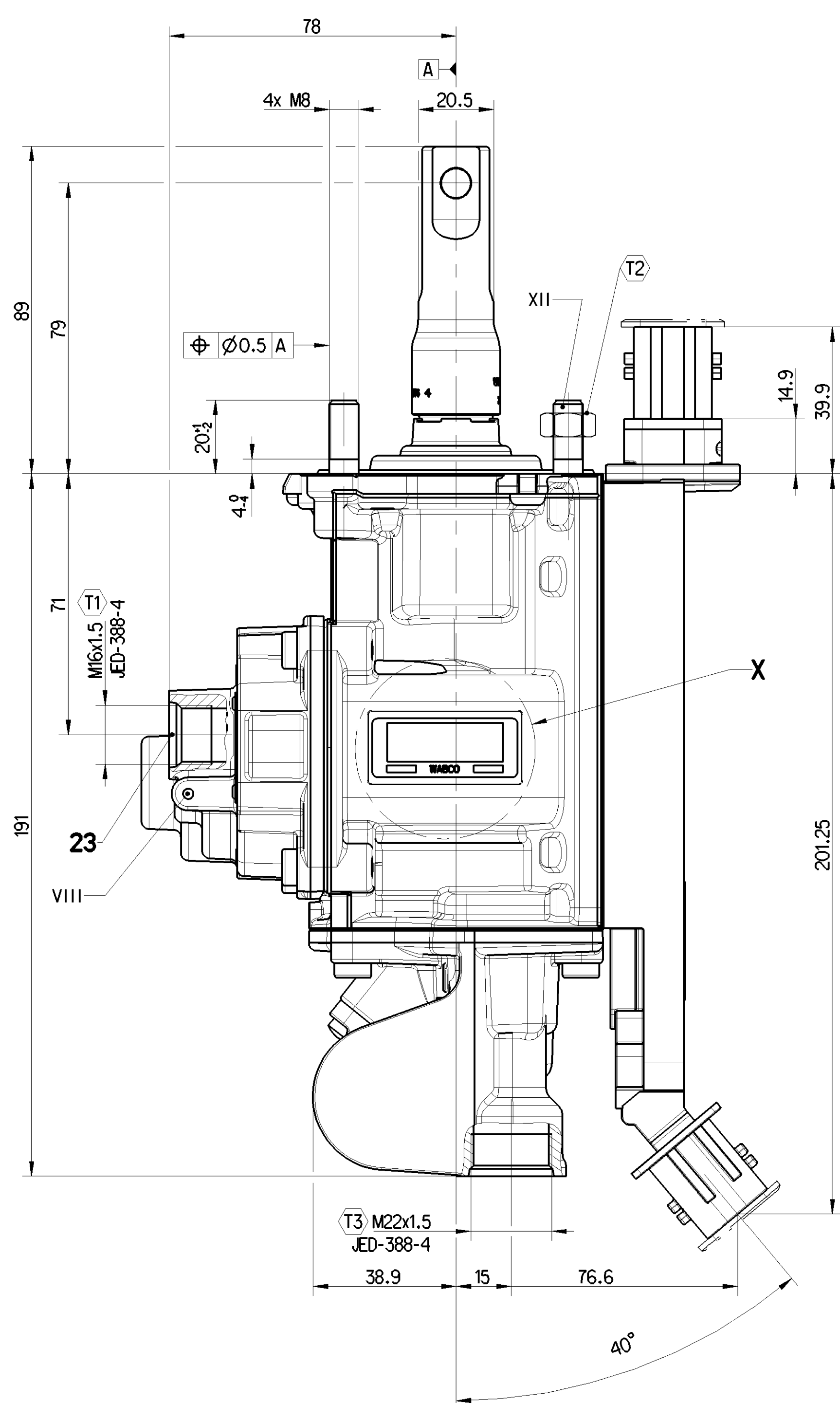
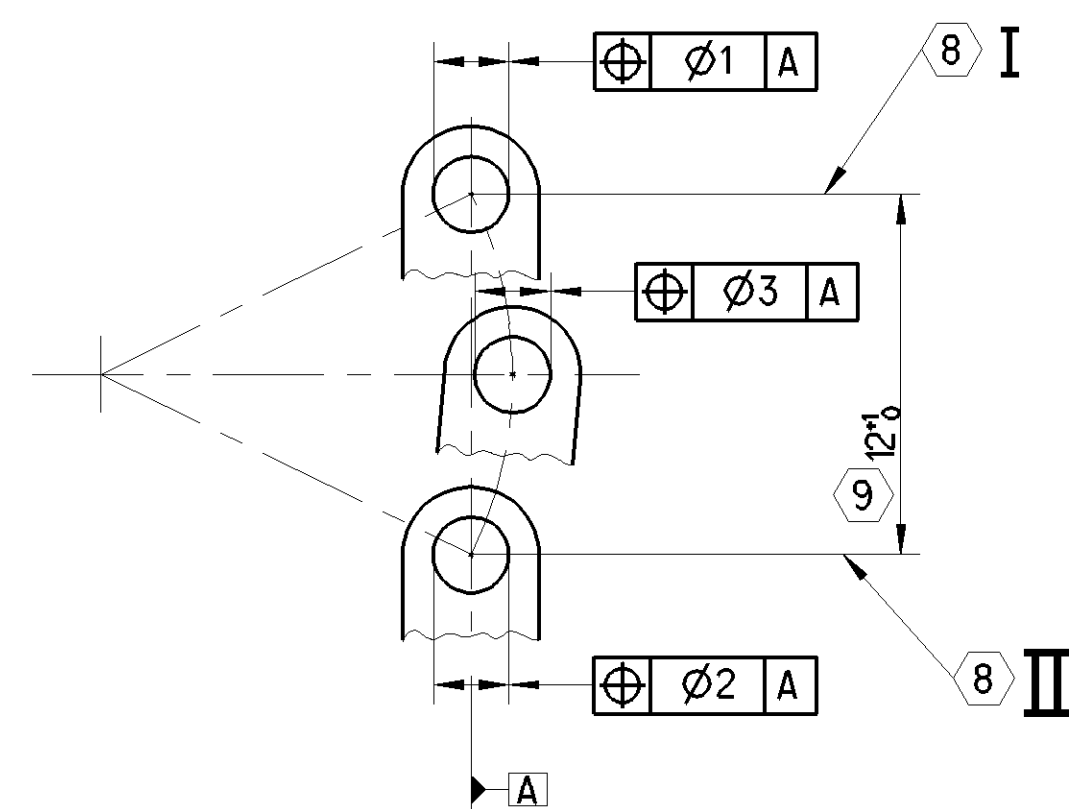
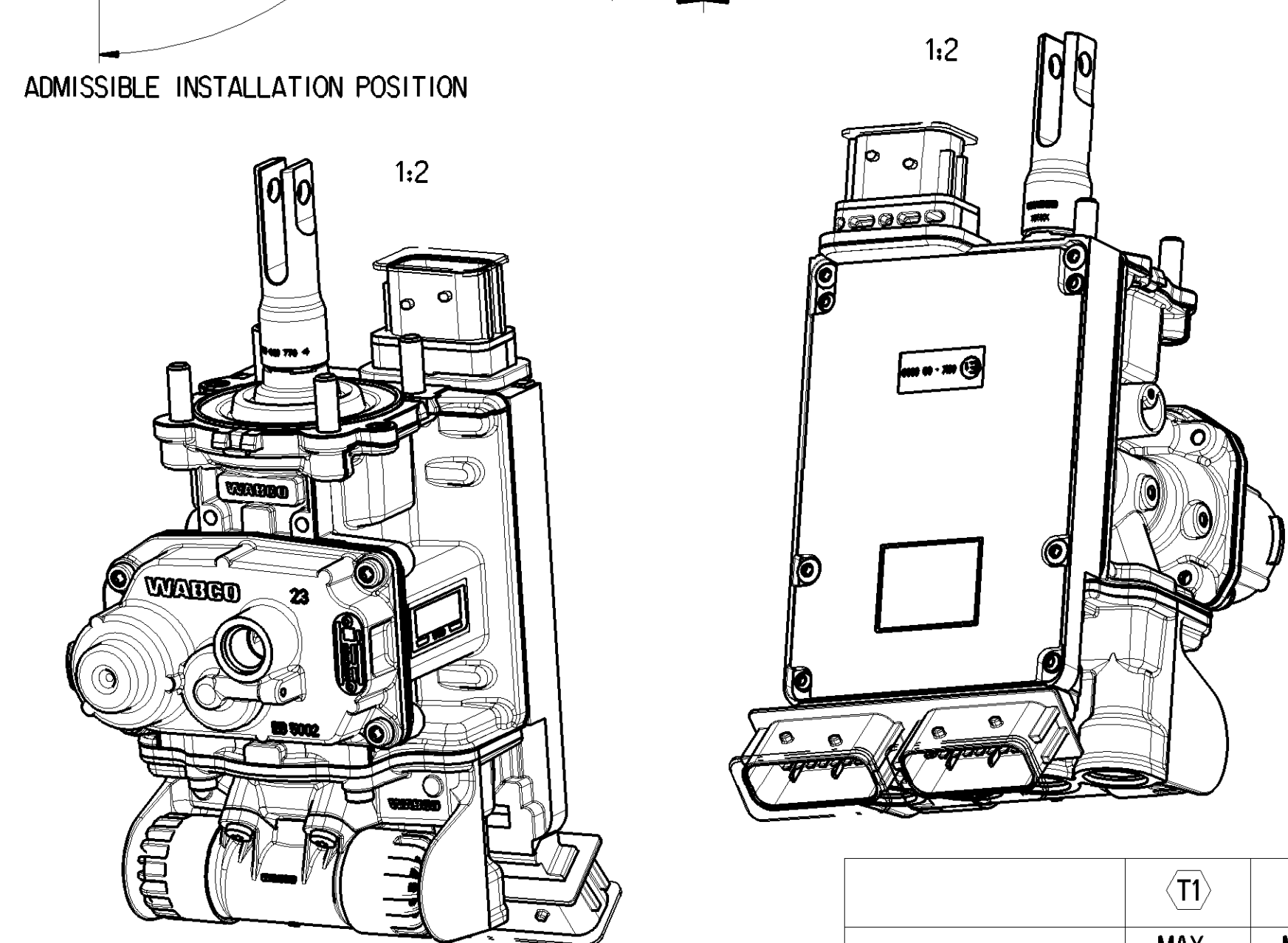
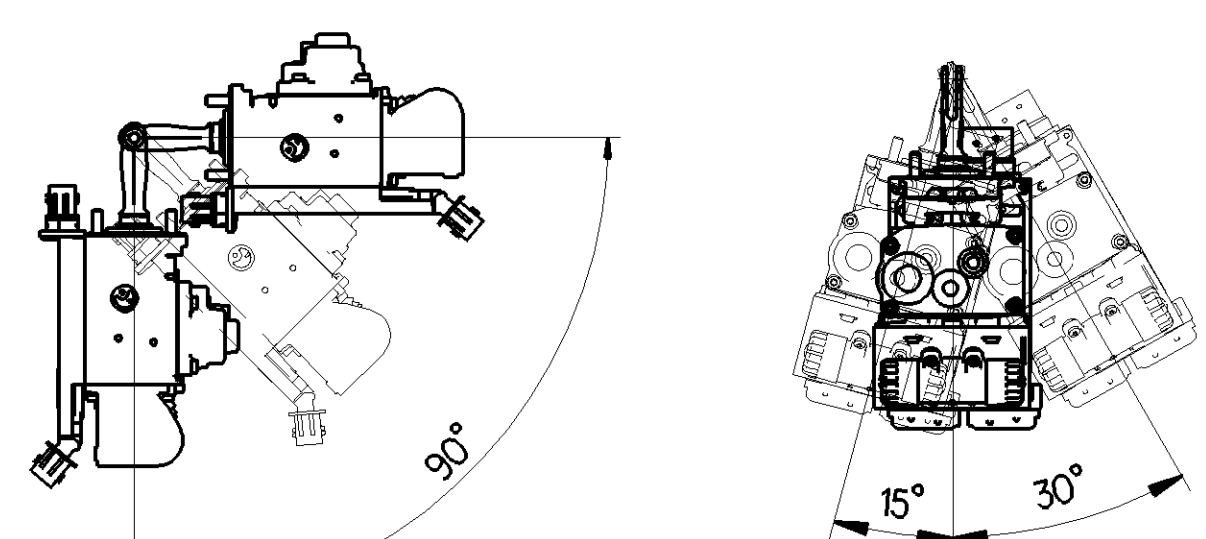
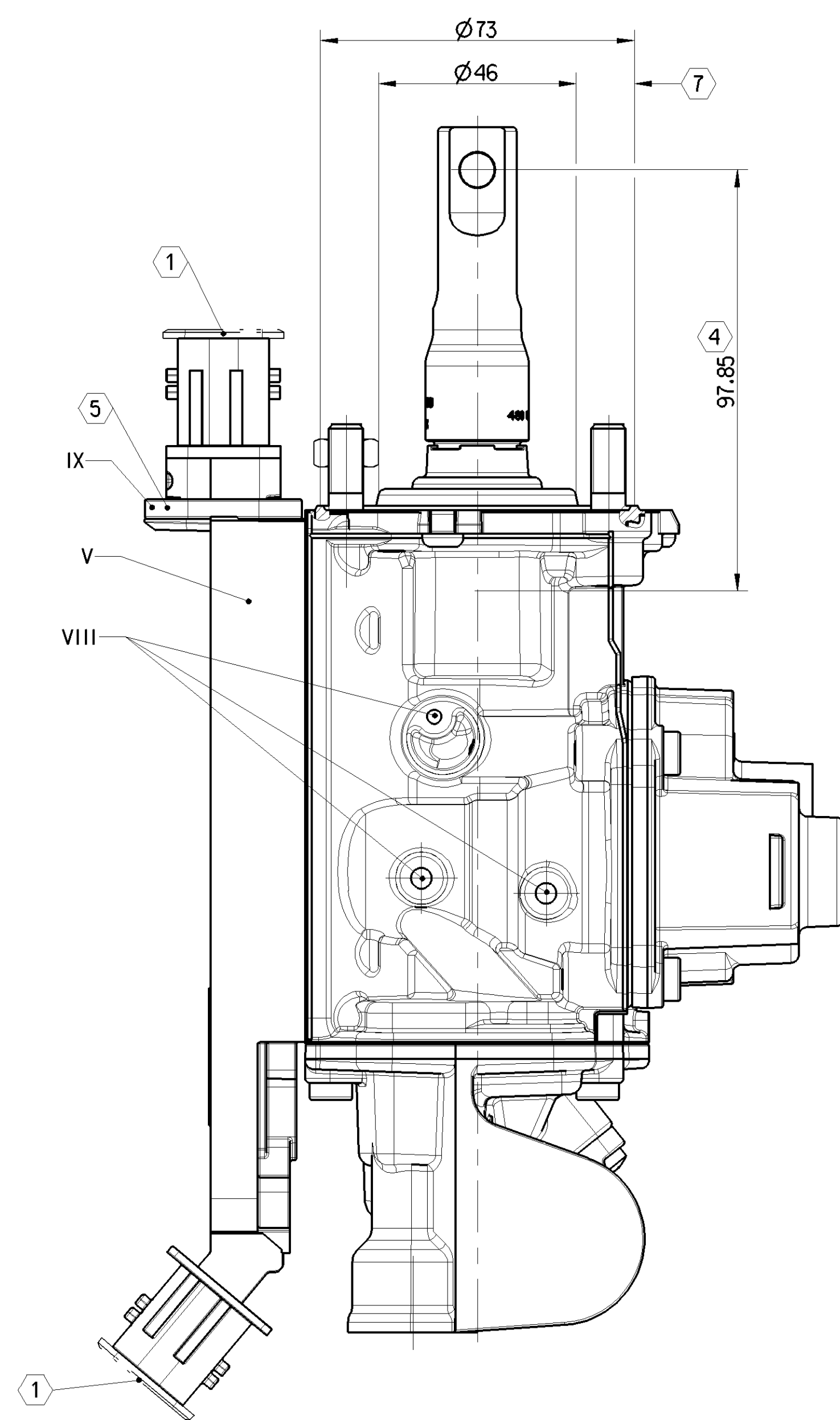
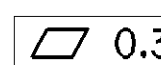
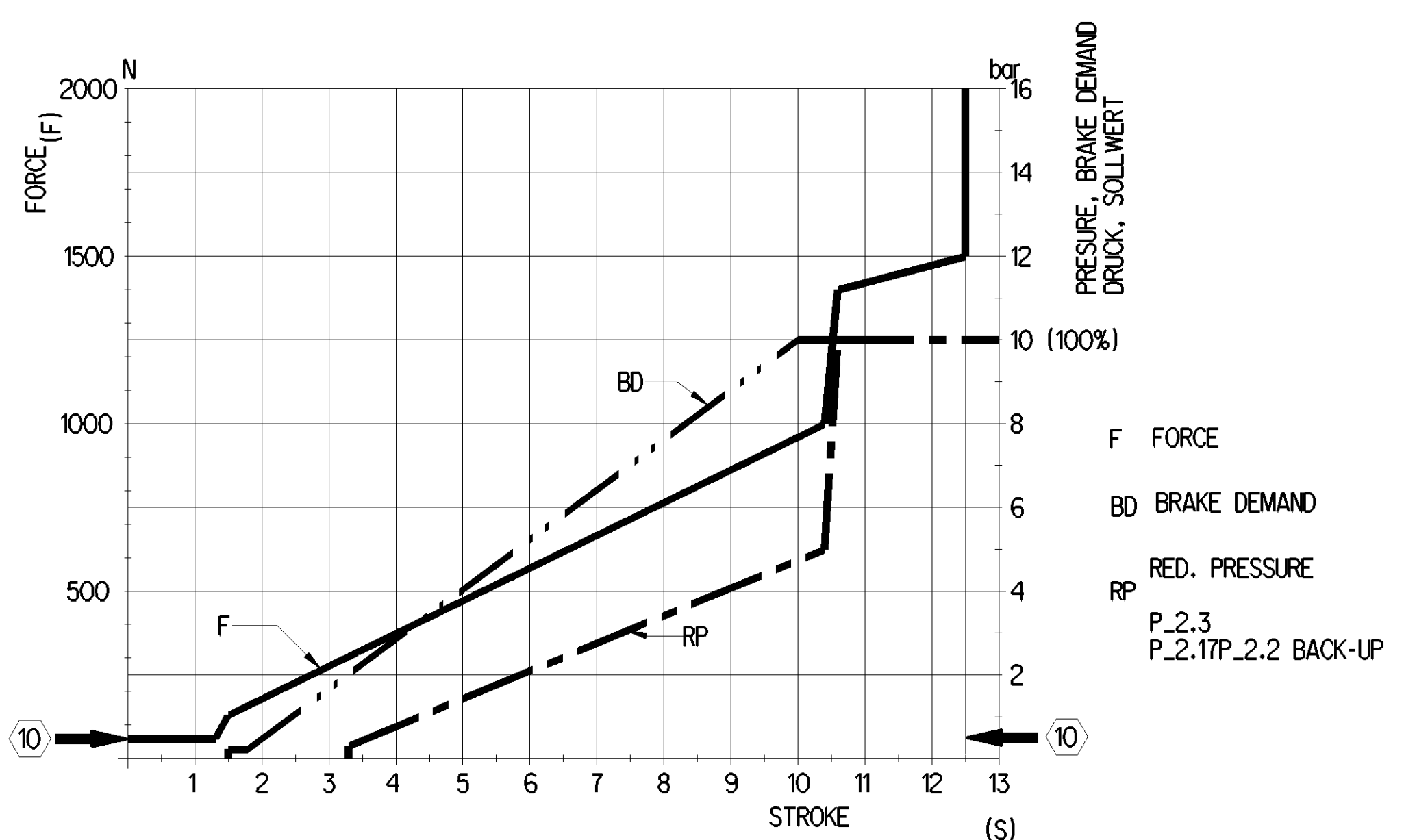




1	COUNTRY OF ORIGIN	
2	DATE OF MANUFACTURE (wwyy)	JED-226
3	DATA CODING	
4	WABCO IDENTIFICATION NUMBER	
5	MANUFACTURING PLANT	
6	SERIAL NUMBER OF CBU (BAR CODE)	
7	SERIAL NUMBER	

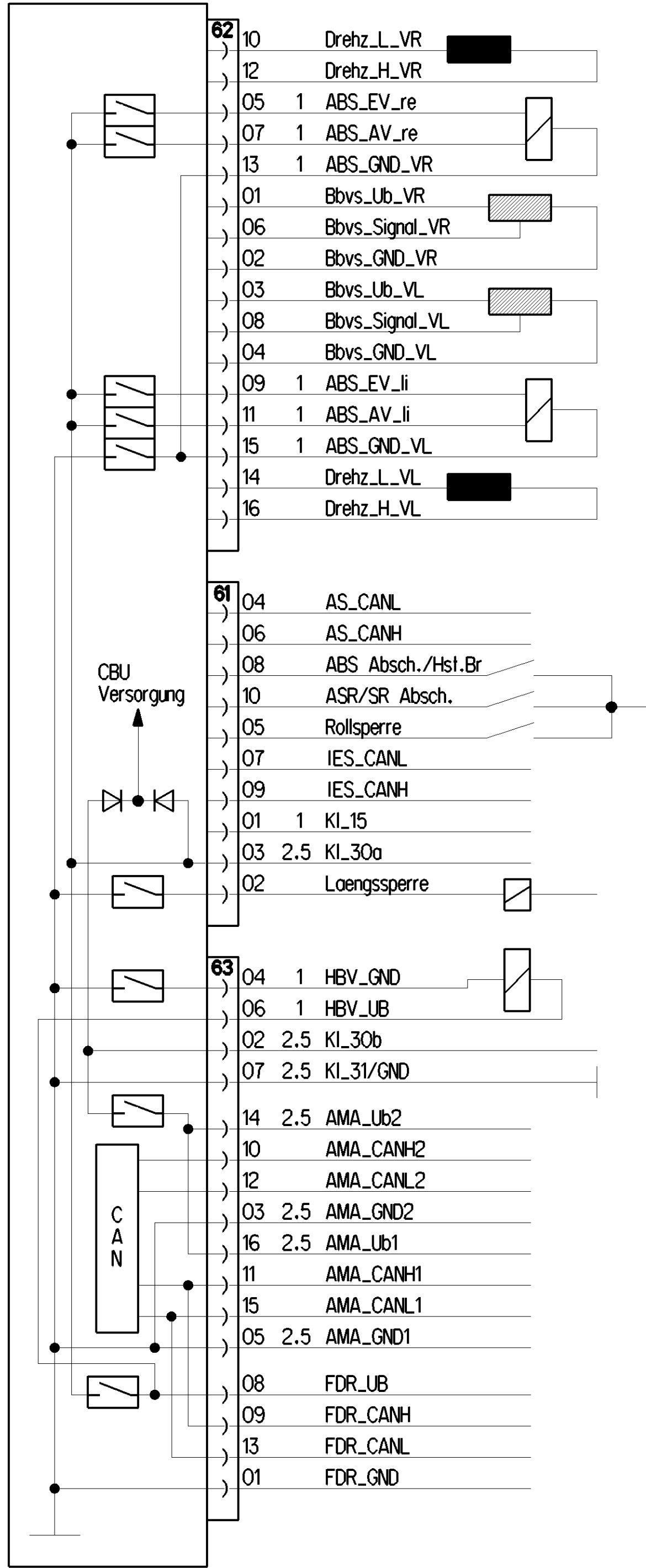


MARKING OF PORTS			MATERIAL		SURFACE PROTECTION		
11	SUPPLY		I	Carbon Steel	JED-027MO	Black	JED-240-5
12			II	TPE	JED-612-0	-	-
21	DELIVERY		III	Al	JED-029MI	Passivation Al	JED-259
22			IV	PA 6.6	JED-354-1	-	-
23			V	PBT, 30% GF	JED-352-1	-	-
			VI	PBT, 30% GF	JED-810-1	Black	-
3	EXHAUST		VII	Al	JED-077-1	Anodic Oxidation	JED-007-1
			VIII	Steel	JED-058MO	-	-
6.1	ELECTRICAL CONTROL		IX	Rubber (CR)	JED-692-3	-	-
6.2			X	Steel	JED-051M4	Passivation Zn,Ni, Steel Silver	JED-739-3
6.3			XI	Steel	JED-051M5	Passivation Zn,Ni, Steel Black	JED-739-4
			XII	Steel	JED-051M4	Passivation Zn, Steel	JED-256-1
			XIII	CuFe2P (R420)	-	Ag > 99.9 1.5 - 6 μm	-
WORKING MEDIUM				AIR (CONTAINING WATER, OIL AND ALCOHOL)			
AMBIENT ENVIRONMENT				AIR (CONTAINING WATER, SALT, DUST AND OIL)			
THERMAL RANGE OF APPLICATION UNDER NORMAL AMBIANT CONDITIONS						-40° . . . +80° C	
SHORT TERM RESISTANCE TO HEAT				MAX. 110° C AT 1h		WITHOUT FUNCTION	
CURRENT CONSUMPTION						0.5...11A	
WORKING PRESSURE (SUPPLY)						p _g = 10 bar	
MAX. PERMISSIBLE WORKING PRESSURE				p _g = 13 bar		TEMPORARILY	
VOLTAGE				TERMINAL		6.1 / 6.2	24 ⁺⁸ ₋₈ V
DEGREE OF PROTECTION ACC. TO		IEC 60529		COMPLETE DEVICE (INSTALLED CONDITION) WITH SOCKETS			IP 6K 9K
PROTECTION CLASS ACC. TO				VDE 0580		I I I	
AT FAILURE EBS		NECESSARY STROKE S		12 mm		NECESSARY FORCE F	
						2000 N	
SOCKET						AMP MCP 2.8	
SENSITIVE ELECTRONIC DEVICE, TO BE HANDLED WITH THE UTMOST CARE							
DO NOT TOUCH CONNECTOR CONTACTS AND RECEPTACLE CONTACTS							
TENSION FREE MOUNTING OF THE LINES							
①	PROTECTION CAP						
②	ELECTRONIC CONNECTOR						
③	NUMBER OF CERTIFICATION						
④	LENGTH OF STEM						
⑤	SEALING						
⑥	SEALING SURFACE  0.3  Ra 12.5						
⑦	SEALING EDGE						
⑧	POSITION						
⑨	STROKE						
⑩	EXTERNAL STROKE LIMIT NOT PERMITTED - STOP PERMISSIBLE ONLY WITHIN THE DEVICE						
⑪	E1 CERTIFICATION MARKING						

[illegible]

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PID 10h				
Name	Byte	Bit	EPB-pre-adjustment EPB-Voreinstellung	signification Bedeutung
reserved reserviert	3	0	1	
ASR-Offroad Mode Stabilität-Taster	3	1	1	Switch Taster
Type of Wheel Brake Radbremstyp	3	3..2	00b	disc front / rear Scheibe v / h
Trailer Control valve Anhängerssteuerung	3	4	1	built-in verbaut
Emergency Brake Valve Hilfsbremsventil	3	5	0	not built-in nicht verbaut
reserved reserviert	3	6	0	
Display ECE R13 Memory Failure Symbol "Fehlerspeicher"	3	7	1	possible möglich
Vehicle Type Fahrzeugtyp	4	3..0	0101b	4 x 2 S
EBS System Type BS-System	4	6..4	000b	4 S / 4 M
VIN Test Deactivation Bausatz für Aufbausersteller	4	7	0	VIN _ Test
adoption of trailer brake pressure Bremsenkenwert Zugfahrzeug	5		70h	0
Trailer pre-brake function Anhängervoreilung	6		0h	
Checksum PID 10h Checksumme PID 10h	7		16h	

PID 11h				
Name	Byte	Bit	EPB-pre-adjustment EPB-Voreinstellung	signification Bedeutung
Tyre Rolling Circumference Front Axle Reifen-Abrollumfang der Vorderachse	3		7Fh	3175mm
Tyre Rolling Circumference Drive Axle Reifen-Abrollumfang der Hinterachse	4		7Fh	3175mm
Tyre Rolling Circumference Tag Axle Reifen-Abrollumfang der Zusatzachse	5		7Fh	3175mm
Configuration Roll Brake and Hold Brake Rollsperrenrol / Hallesstellenbremse	6	3..0	0001b	only roll-brake nur Rollbremse
Tyre Rolling Circumference Extension Sonderreifen	6	4	0	not allowed nicht zulässig
reserved reserviert	6	5	0	
Hysteresis Kernlinie des Bremswertgebers	6	7..6	00b	Standard
Checksum PID 11h Checksumme PID 11h	7		7Fh	

PID 12h				
Name	Byte	Bit	EPB-pre-adjustment EPB-Voreinstellung	signification Bedeutung
reserved reserviert	3	0	0	
TCS Brake Control ASR-Bremsregelung	3	1	1b	not available nicht vorhanden
Selection characteristic curve steering ratio Auswahl Lenk übersetzungskennlinie	3	4...2	000	Characteristic curve 0 Kernlinie 0
Study steering ratio Lernen Lenk übersetzung	3	5	1	enabled ermöglicht
Response characteristics SZM-ESC Ansprechverhalten SZM-ESC	3	6	0	normal
Mass dependence SZM-RSC Masseabhängigkeit SZM-RSC	3	7	0	normal
reserved reserviert	4		FFh	
ESC Module Fahrdynamikregelung	5	0	0	not available nicht vorhanden
Steering angle sensor Lenkwinkelsensor	5	1	0	not available nicht vorhanden
Emergency brake system NBS-Funktion	5	2	0	
TCO plausibility check TCO Plausibilitätsprüfung	5	3	1	disabled gesperrt
3rd axle configuration Konfiguration der 3. Achse	5	7...4	0000b	
DSC Bits - Endurance Brake Integration Dauerbremsenbindung	6	0	1	Yes Ja
reserved reserviert	6	1	0	
DSC Bits - wheel brake temperature monitoring Anzeige Radbremsbelastung	6	2	0	No Nein
Lining wear offset determination Verschleiss Offset-Ermittlung	6	3	0	No Nein
reserved reserviert	6	5..4	11b	
reserved reserviert	6	6	0	
reserved reserviert	6	7	0	
Checksum PID 12h Checksumme PID 12h	7		56h	

PID 13h				
Name	Byte	Bit	EPB-pre-adjustment EPB-Voreinstellung	signification Bedeutung
ESP vehicle type ESP Fahrzeugvariante	3		00h	-
wheel base drive axle to front axle Radstand zur 1. Hinterachse (Festwert 3.75m)	4		19h	3.75m
wheel base drive axle to additional axle Abstand zwischen den Hinterachsen	5		FFh	not used nicht benutzt
steering sensor type Lenkwinkelsensor-Typ	6	7..0	0000 0110b	"PETRI" of vehicle bus "PETRI" am FZG.-Bus
Checksum PID 13h Checksumme PID 13h	7		1Fh	

PID 14h				
Name	Byte	Bit	EPB-pre-adjustment EPB-Voreinstellung	signification Bedeutung
Securing Pressure (ASR Brake Control) Sicherungsdruck (ASR-Bremssteuerung)	3		00h	0 bar
Securing Pressure Hysteresis Sicherungsdruck Hysterese	4		00h	0 bar
Pole Wheel Tooth Number FA Polradzähnezahl Vorderachse	5	3..0	0110b	100
Speedometer adjustment Tachodabgleich	5	4	1	Yes Ja
reserved reserviert	5	5	0	-
n.d. n.d.	5	6	0	-
ABS control with low thresholds ABS-Kontrolle mit kleinen Schwellen	5	7	1	always low immer niedrig
Pole Wheel Tooth Number RA Polradzähnezahl Hinterachse	6	3..0	0110b	100
Pole Wheel Tooth Number AA Polradzähnezahl Zusatzachse	6	7..4	0110b	100
Checksum PID 14h Checksumme PID 14h	7		FDh	

PID 15h				
Name	Byte	Bit	EPB-pre-adjustment EPB-Voreinstellung	signification Bedeutung
reserved reserviert	3		C8h	
reserved reserviert	4		C8h	
reserved reserviert	5		19h	25
reserved reserviert	6		19h	25
Checksum PID 15h Checksumme PID 15h	7		C3h	

Super single				not allowed nicht zulässig

General Specifications: JED-334-1, Size ISO 14405 LP
Further Technical Data: 480 020 115 0
Doc. Code: 035 Sheet: 1 To: 46

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Date: 2019-12-04
Signature: Poku
Checked: 2019-12-04
Expert: Marciniewicz
Kokowski

WABCO
CENTRAL BRAKE UNIT

Material No.: 480 020 115 0
Date of first issue: 2019-12-04
Doc. Code: 005 EN
Language: 2/2
Revision: -
Tech. Resp.: 6880_AM
Replacement for: -

Mass: 3.5 kg
Scale: -
Size: A 1
CAD System: CREO
Tapped Holes acc.: 1)
1) Tolerance Class Applied: Crossmarked

General Tolerances JED-261
Range of Nominal Dimensions (± mm)
Class 1) ≤ 50 > 50 ≤ 180 > 180 ≤ 400 > 400
Fine X 1.0 2.0 3.0 4.0
Medium X 2.0 3.5 5.0 6.5
Coarse
±3°

100mm