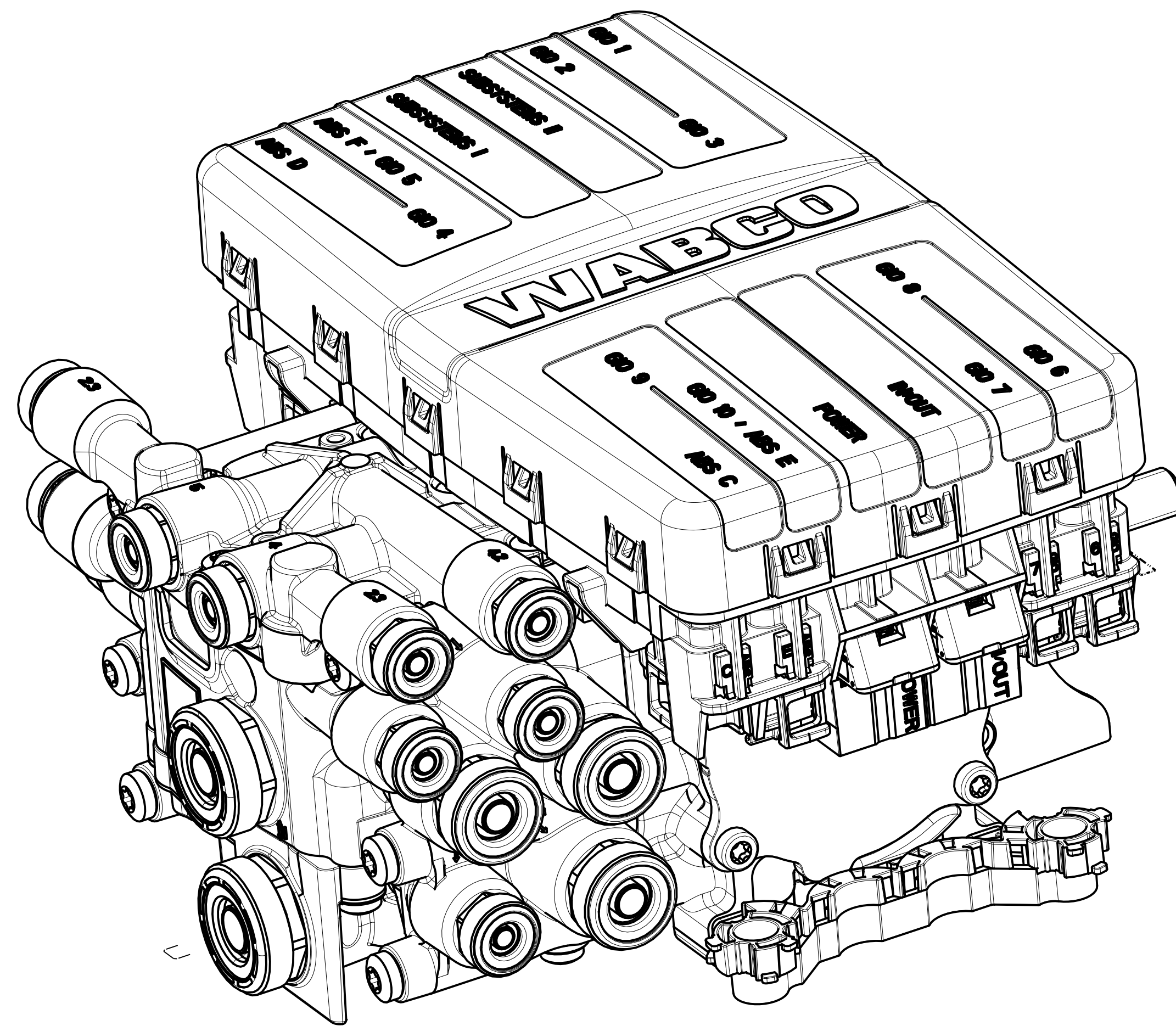
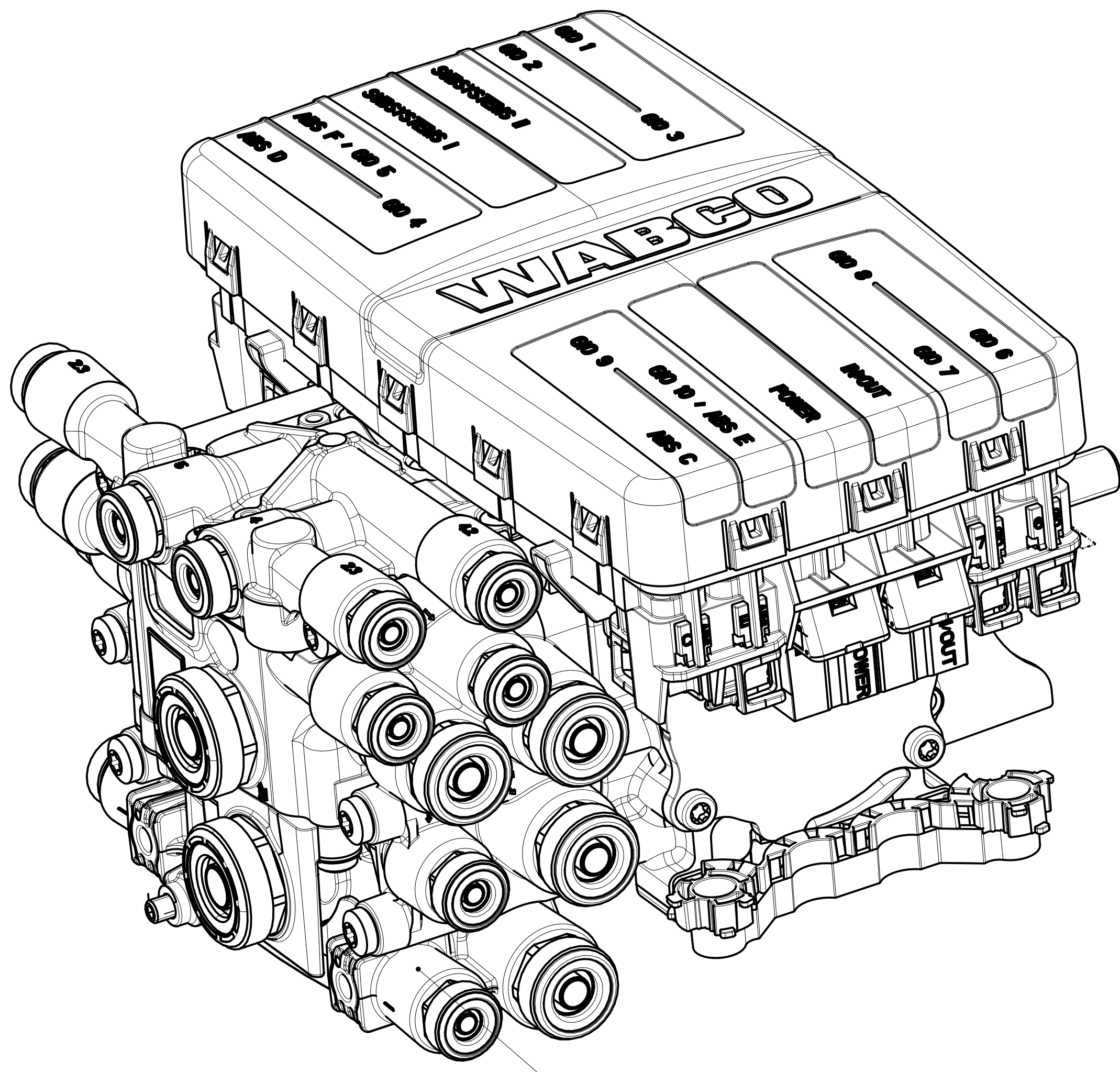




| VARIANT                                                                  | BASIC STEEL                                                                                |               | BASIC AIR             |               |               | STANDARD                       |                                |                                                 |                       | PREMIUM                        |                                |                                |               |                       |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------|-----------------------|---------------|---------------|--------------------------------|--------------------------------|-------------------------------------------------|-----------------------|--------------------------------|--------------------------------|--------------------------------|---------------|-----------------------|
| WABCO IDENTIFICATION NUMBER                                              | 480 102 105 0                                                                              | 480 102 106 0 | 480 102 201 0         | 480 102 202 0 | 480 102 203 0 | 480 102 301 0<br>480 102 311 0 | 480 102 302 0<br>480 102 312 0 | 480 102 303 0<br>480 102 313 0<br>480 102 323 0 | 480 102 305 0         | 480 102 401 0<br>480 102 411 0 | 480 102 402 0<br>480 102 412 0 | 480 102 403 0<br>480 102 413 0 | 480 102 405 0 |                       |
| COVER COLOR                                                              | BLACK                                                                                      |               | BLACK                 |               |               | BLUE RAL 5017                  |                                |                                                 |                       | GREEN RAL 6002                 |                                |                                |               |                       |
| OVERFLOW VALVE FOR AIR SUSPENSION                                        | NO                                                                                         | NO            | YES                   | YES           | YES           | YES                            | YES                            | YES                                             | NO                    | YES                            | YES                            | YES                            | NO            |                       |
| SUSPENSION TYPE                                                          | STEEL                                                                                      |               | AIR                   |               |               | AIR                            |                                |                                                 |                       | STEEL OR HYDRAULIC             |                                | STEEL OR HYDRAULIC             |               |                       |
| MAX. SYTEM CONFIGURATION                                                 | 4S/2M                                                                                      |               | 2S/2M                 |               |               | 4S/2M+3d.1M                    |                                |                                                 |                       | 4S/3M                          |                                |                                |               |                       |
| WEIGHT                                                                   | 5.10kg                                                                                     | 5.10kg        | 5.34kg                | 5.34kg        | 5.34kg        | 5.35kg                         | 5.35kg                         | 5.35kg                                          | 5.11kg                | 5.39kg                         | 5.39kg                         | 5.39kg                         | 5.15kg        |                       |
| FURTHER TECHNICAL DATA<br>SEE PRODUCT SPECIFICATION                      | 4801021000____035                                                                          |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| WORKING MEDIUM                                                           | AIR (CONTAINING WATER, OIL AND ALCOHOL) ACC. TO JED-848                                    |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| WORKING ENVIRONMENT                                                      | AIR WITH TRACES OF WATER, SALT, DUST AND ENGINE OIL                                        |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| THERMAL RANGE OF APPLICATION<br>UNDER NORMAL ENVIRONMENTAL<br>CONDITIONS | -40°C UP TO +65°C<br>SEE SYSTEM DESCRIPTION<br>815 010 252 3                               |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| SHORT TIME HEAT RESISTANCE                                               | MAX 110°C FOR 1h (NOT PRESSURERIZED)                                                       |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| NOMINAL OPERATING PRESSURE<br>(SUPPLY)                                   | P1 = 9 BAR ±0.2 BAR                                                                        |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| MAX. PERMISSIBLE WORKING<br>PRESSURE (SUPPLY)                            | P1 MAX. = 11.5 BAR                                                                         |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| VOLTAGE RANGE<br>(NOMINAL VOLTAGE)                                       | DC 8 V UP TO 32 V<br>(12 V AND 24 V)                                                       |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| TYPE OF PROTECTION ACC. TO                                               | ISO 16750-F(+C)-Z-C-D-D-IP6K9K<br>COMPLETE DEVICE WITH MOUNTED PLUGS                       |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| INSTALLATION INSTRUCTION                                                 | AFTER INITIAL INSTALATION A SETUP WITH DIAGNOSTIC SOFTWARE IS REQUIRED ACC. TO APPLICATION |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| EEC APPROVAL MARK                                                        |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| ADR APPROVAL MARK                                                        |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| SYSTEM DESCRIPTION                                                       | 815 010 252 3                                                                              |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| FURTHER DOCUMENTS                                                        | SEE SYSTEM DESCRIPTION                                                                     |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| MINIMUM FLOW PATH<br>DIAMETER                                            |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| SUPPLY LINE P1                                                           |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| BRAKE LINE P2.1 AND P2.2                                                 |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| SPRING BRAKE ACTUATOR LINE P2.3                                          |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| TEST PORT P2.4                                                           |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| CONTROL LINE P4                                                          |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| PARK BRAKE CONTROL P4.2                                                  |                                                                                            |               |                       |               |               |                                |                                |                                                 |                       |                                |                                |                                |               |                       |
| AIR SUSPENSION BELLOW P5                                                 | -                                                                                          |               | 6.2 BAR ± 0.2 BAR     |               |               |                                |                                |                                                 | -                     | 6.2 BAR ± 0.2 BAR              |                                |                                | -             |                       |
| SUPPLY LINE FOR AIR SUSPENSION P1.1                                      | -                                                                                          |               |                       |               |               |                                |                                |                                                 | -                     |                                |                                |                                | -             |                       |
| OPENING PRESSURE OVERFLOW VALVE                                          | -                                                                                          |               | 6.2 BAR ± 0.2 BAR     |               |               |                                |                                |                                                 | -                     | 6.2 BAR ± 0.2 BAR              |                                |                                | -             |                       |
| FILE NAME DMU MODEL                                                      | 4801021050____920.PRT                                                                      |               | 4801022010____920.PRT |               |               |                                |                                |                                                 | 4801021050____920.PRT |                                | 4801022010____920.PRT          |                                |               | 4801021050____920.PRT |

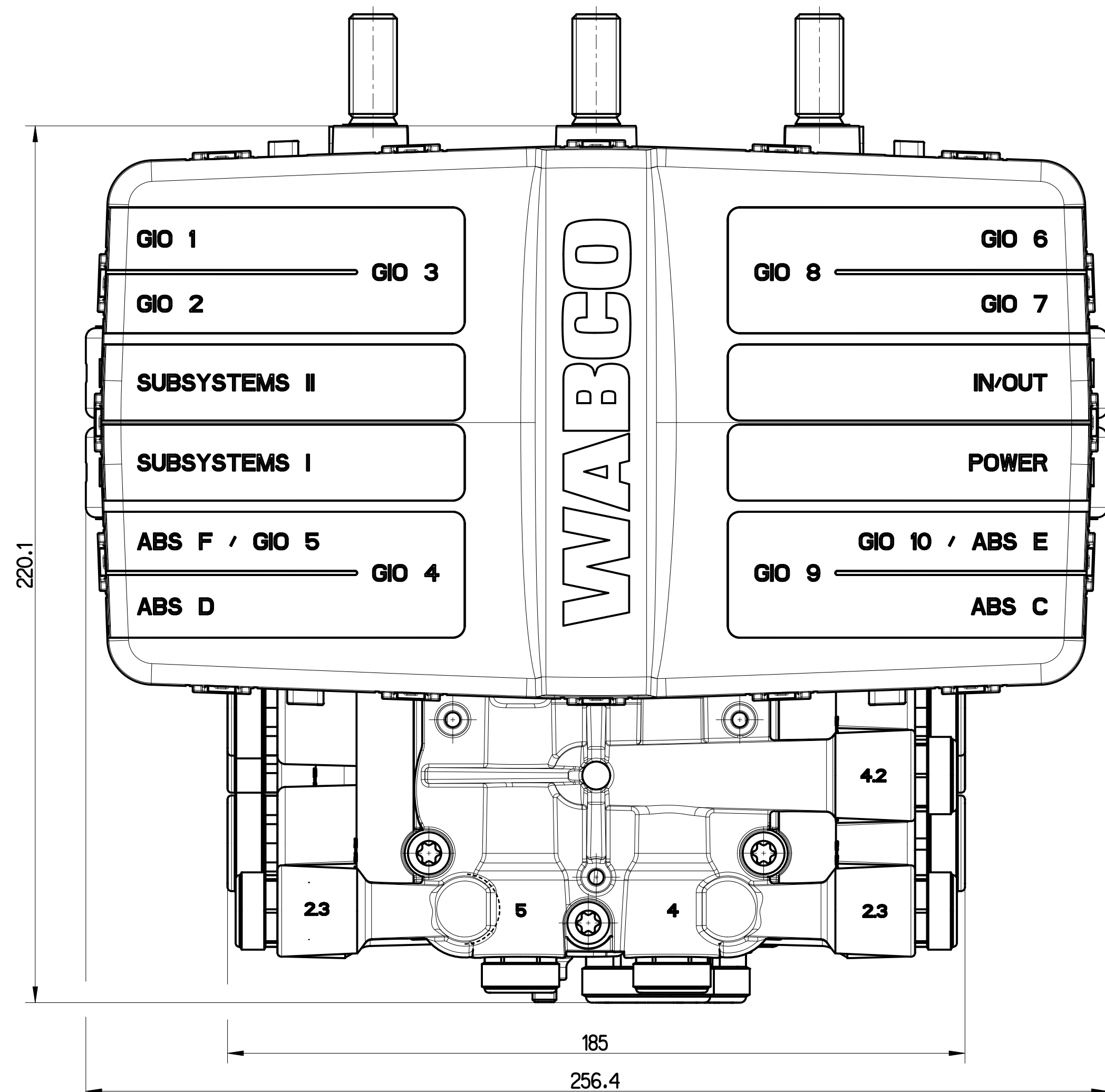
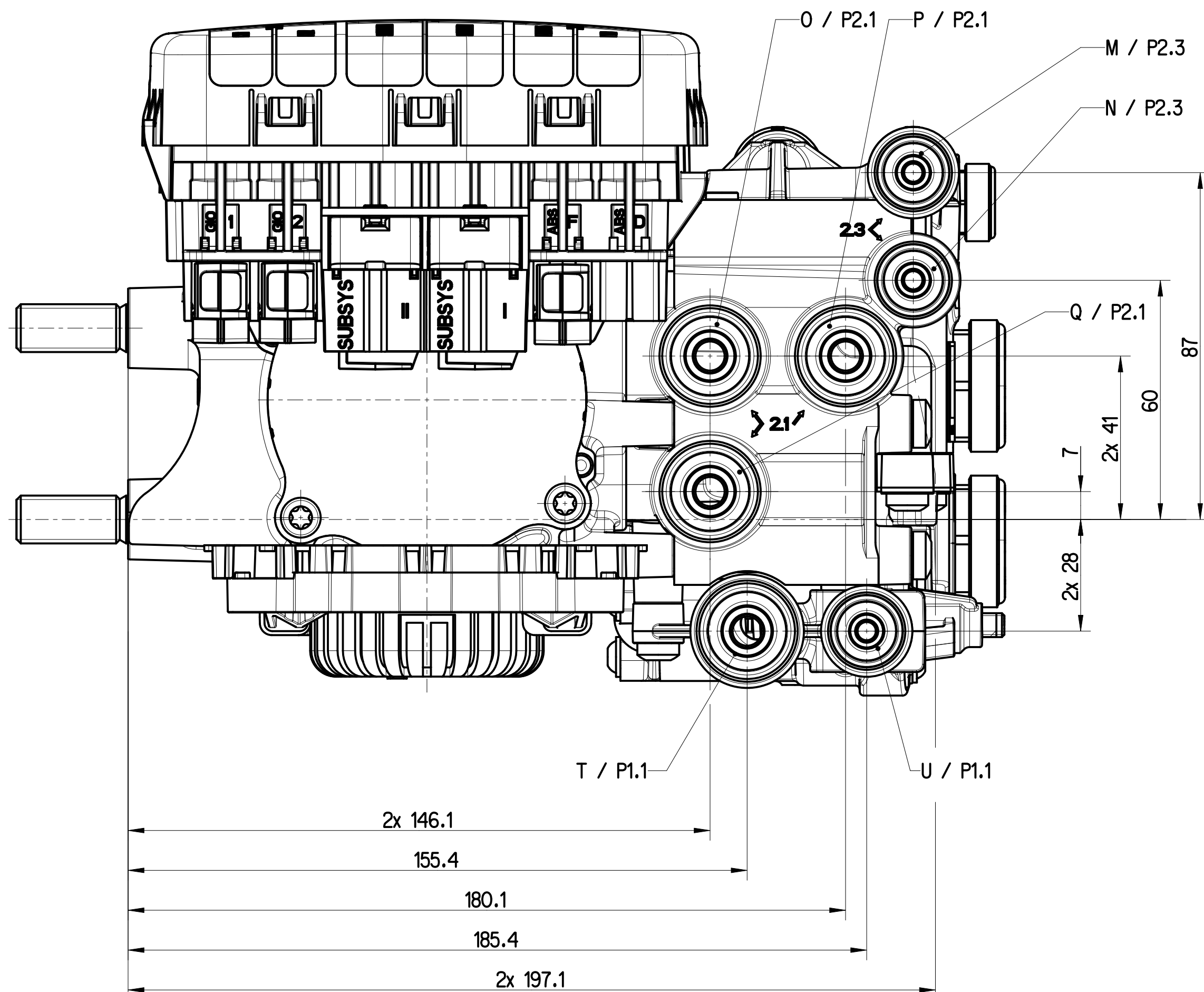
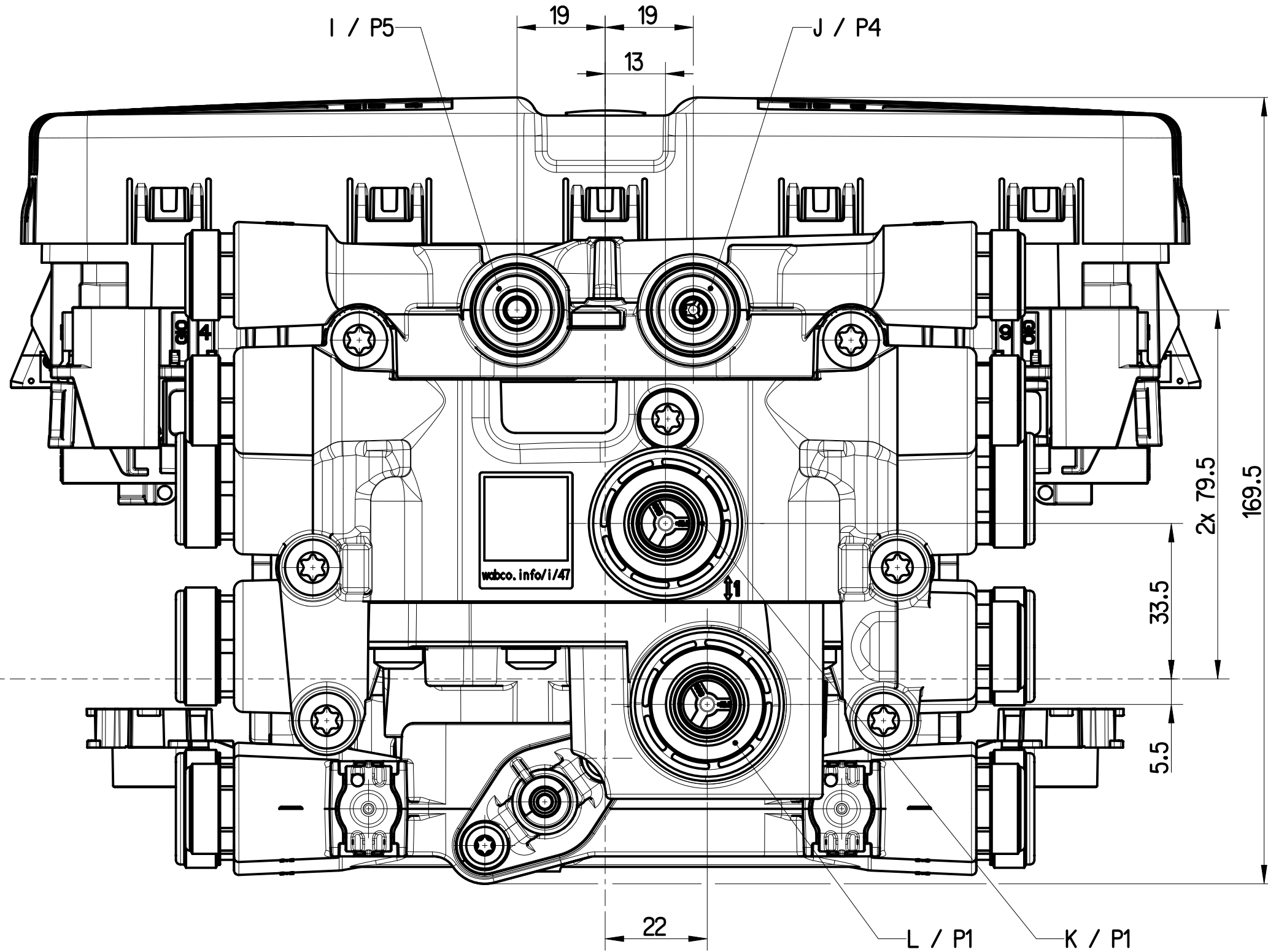
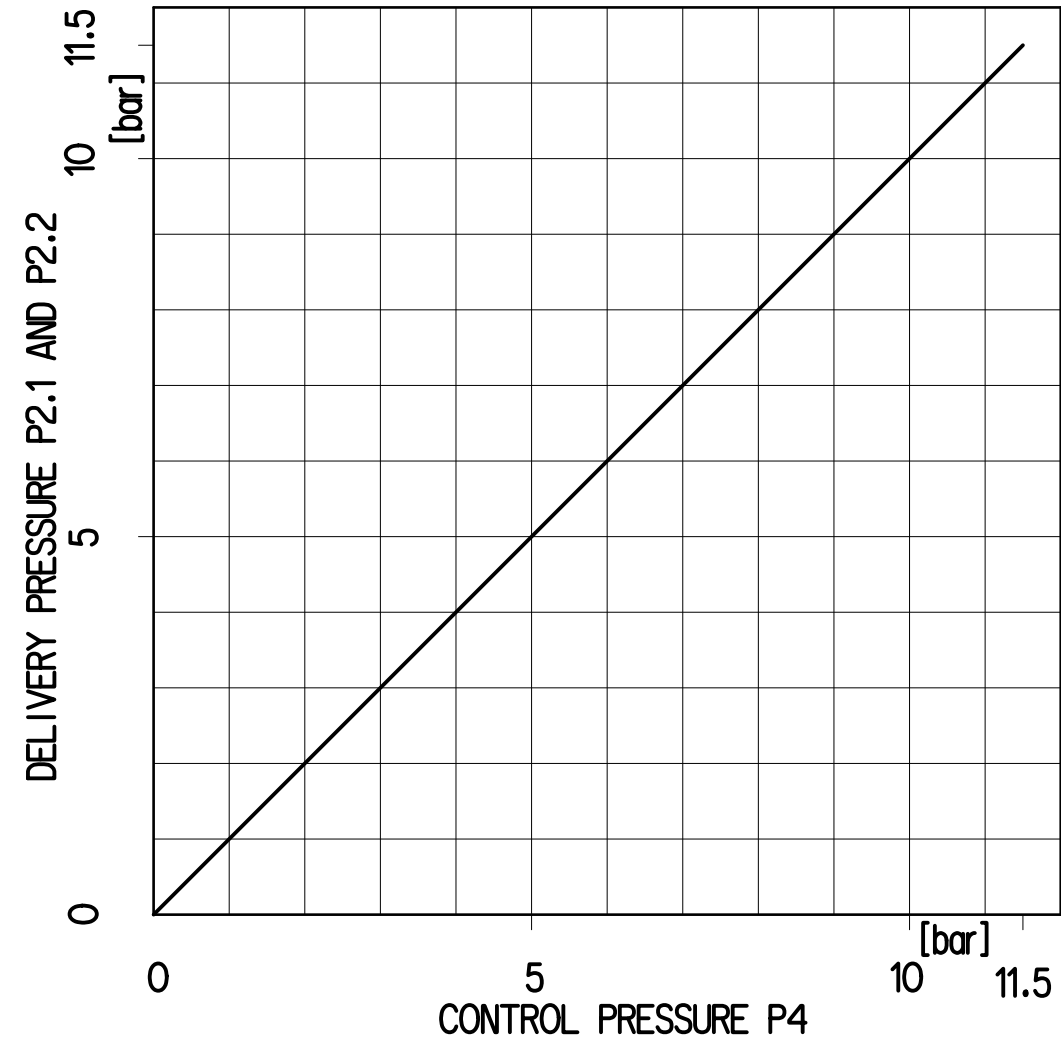
| TABLE OF CONTENT |                                                                           |
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| 3                | MECHANICAL PROPERTIES FOR VARIANTS WITH STEEL OR HYDRAULIC SUSPENSION     |
| 4                | PNEUMATIC PORTS AND ASSEMBLY REMARKS FOR ALL VARIANTS                     |
| 5                | ELECTRICAL CONNECTION FOR ALL VARIANTS                                    |

**SAFETY INFORMATION:**  
THE ADOPTION OF THIS VEHICLE TO SPECIFIC SERVICE CONDITIONS MUST BE CARRIED OUT TAKING ACCOUNT OF THE VEHICLE  
MANUFACTURER'S SPECIFICATIONS. IT SHOULD ONLY BE INSTALLED BY APPROPRIATELY QUALIFIED SPECIALISTS. UNLAWFUL BY AUTHORISED WORKSPACES  
ANY IMPROPER OR NEGLECTED ADJUSTMENT CAN LEAD TO DAMAGE OR EVEN ACCIDENTS.  
THE VEHICLE'S INSULATING PROPERTIES MUST BE MAINTAINED AS APPROPRIATE. SETTING THE VEHICLE TO THE  
SPECIAL TOOL AND/OR TRAINING ARE ESSENTIAL FOR CARRYING OUT SETTINGS.  
ON COMPLETION OF THE SETTING PROCESS, PLEASE CONTACT YOUR DEALER BEFORE RE-INSTALLATION.  
ON COMPLETION OF THE SETTING PROCESS, THE FUNCTIONING IN THE VEHICLE MUST BE CHECKED AND ACCORDINGLY DOCUMENTED ON THE VEHICLE.  
HAZARDOUS VOLTAGES CAN DAMAGE THE ELECTRONIC CONTROL UNIT (ECU).  
BEFORE THE VEHICLE IS RE-INSTALLED, THE ECU MUST BE DISCONNECTED FROM THE VEHICLE. ALL CONNECTORS AT THE ECU HAVE TO BE DISCONNECTED.  
THE PLUG-CONNECTORS OF THE ECU HAVE TO BE MARKED (E.G. BY USING GLUE AND PLUGS).  
SPECIAL COLOURS, LABELLING AND PAINTING SYSTEMS HAVE TO BE CONSIDERED IN THE WORK PROCESS.  
MOVABLE OR INSULATING COMPONENTS (E.G. AXLES) HAVE TO BE CONNECTED CONDUCTIVE WITH THE FRAME (CHASSIS).

[illegible]



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480 102 201 0
480 102 202 0
480 102 203 0
480 102 301 0
480 102 302 0
480 102 303 0
480 102 311 0
480 102 312 0
480 102 313 0
480 102 323 0
480 102 401 0
480 102 402 0
480 102 403 0
480 102 411 0
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480 102 413 0
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| TABLE OF CONTENT |                                                                           |
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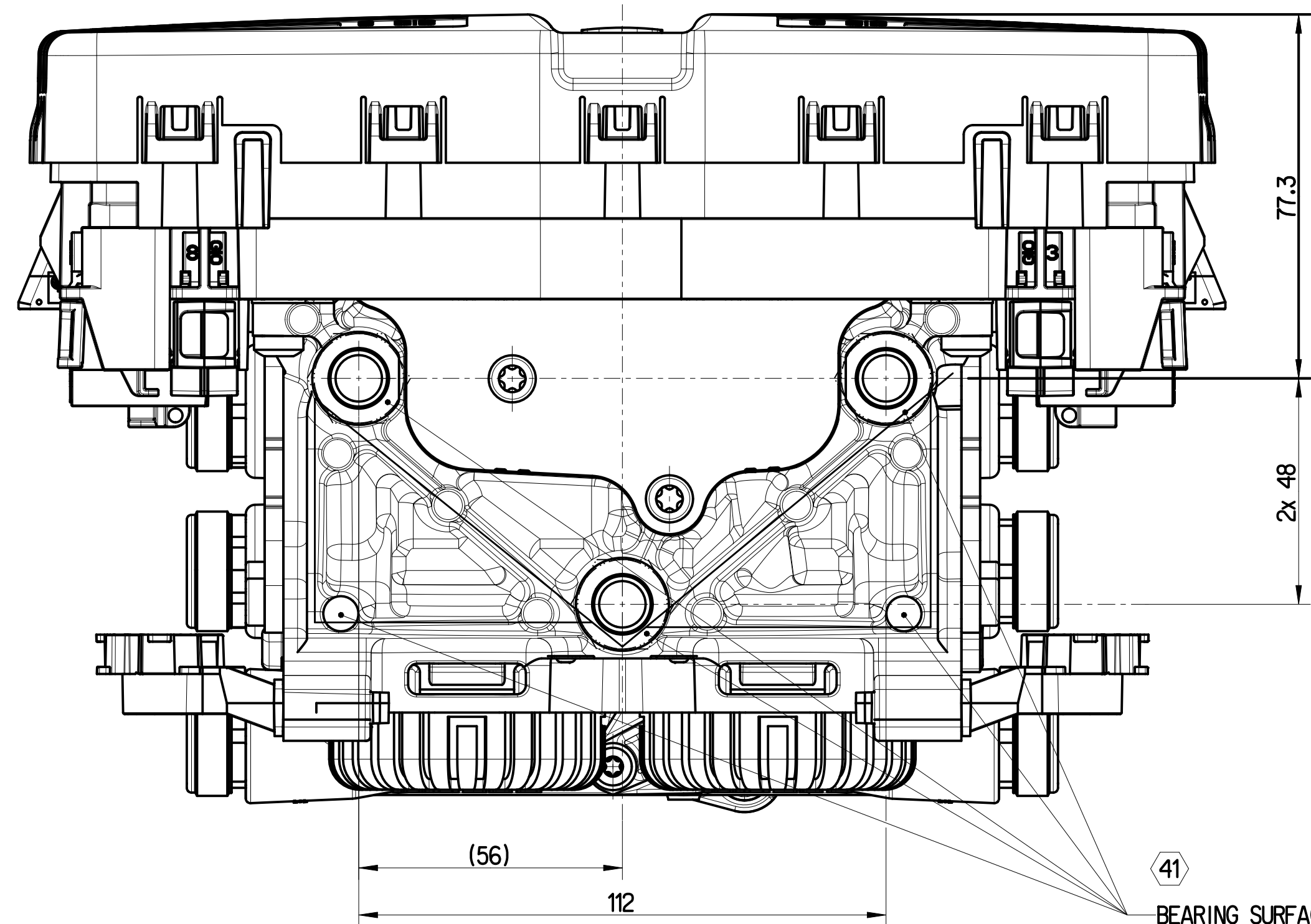
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REAR VIEW  
DRILL PATTERN



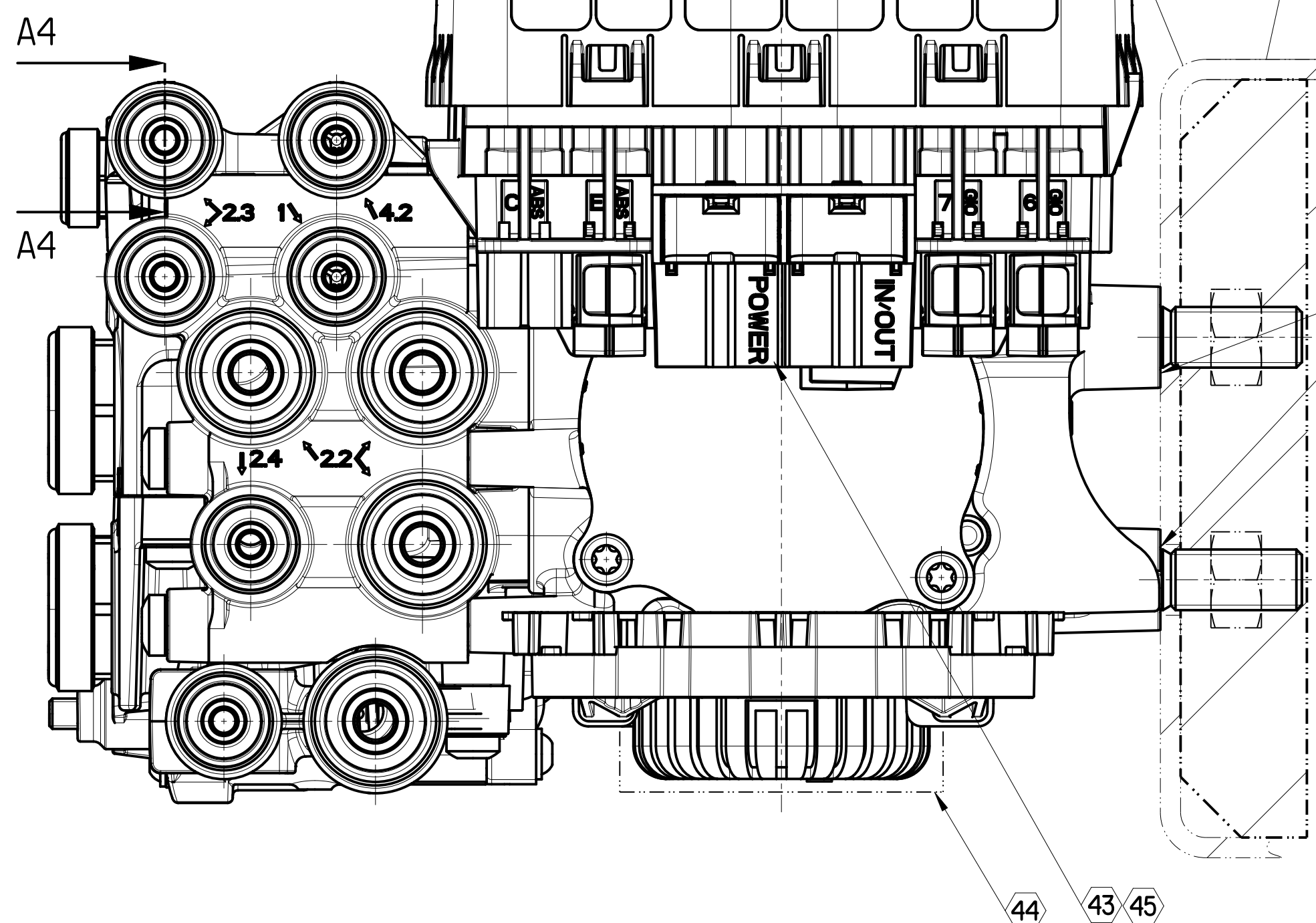
(41)  
BEARING SURFACE  
CONTACT AREAS  
(MATERIAL: AL-Si12 Cu Fe)  
(SURFACE PROTECTION: PASSIVATION/CHROMATING)

STEEL WITH SUFFICIENT SURFACE PROTECTION  
DO NOT USE STAINLESS STEEL

PROP UP THE SUPPORT AT  
TOP AND AT BOTTOM

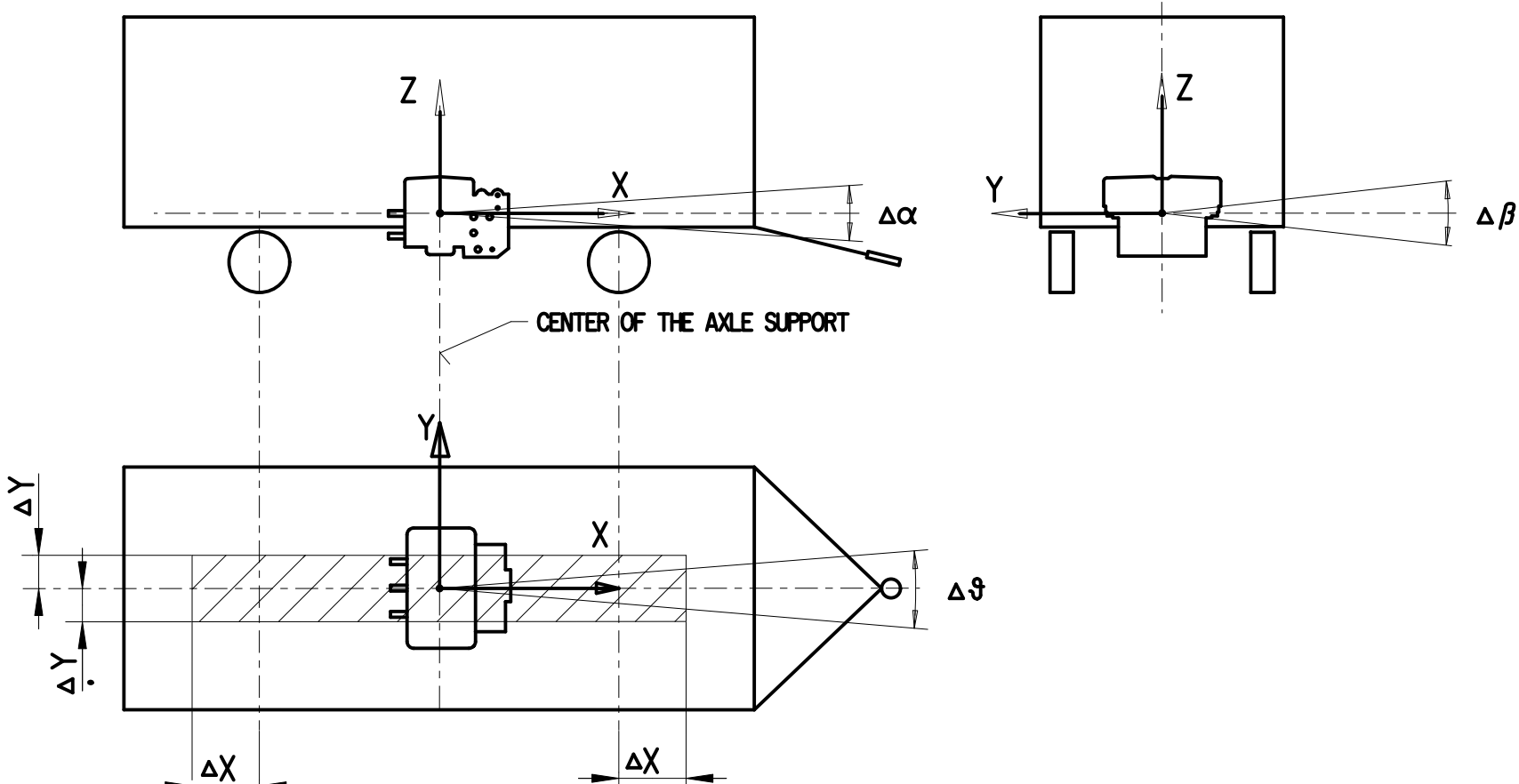
EXAMPLE FOR REQUIRED  
REINFORCEMENT

NO RECESSES  
PERMISSIBLE  
NEXT TO  
CONTACT FACE

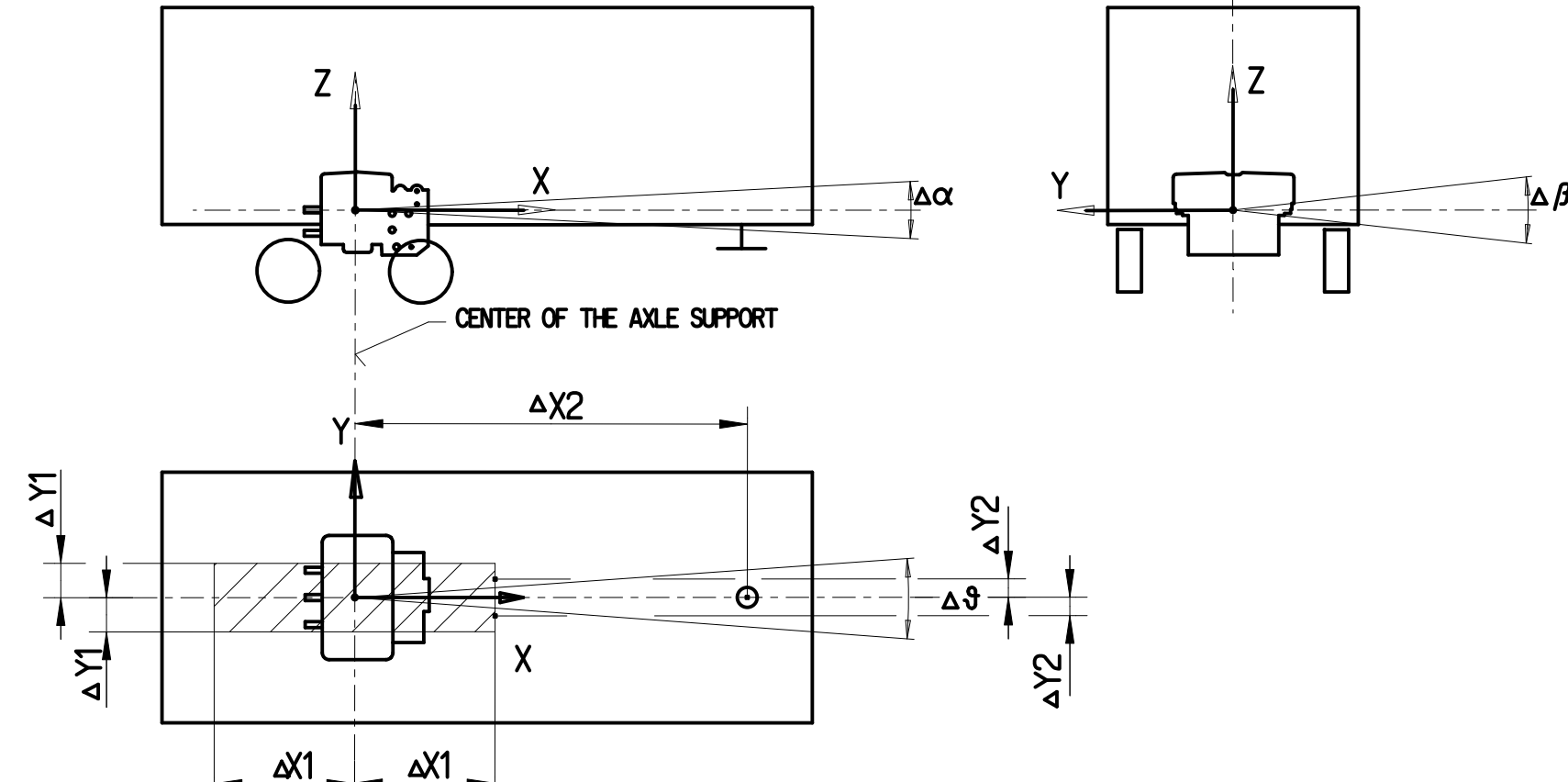


INSTALLATION RESTRICTIONS FOR RSS (ROLL STABILITY SUPPORT)

INSTALLATION LIMITATIONS FOR DRAWBAR TRAILER:



INSTALLATION LIMITATIONS FOR SEMITRAILER:

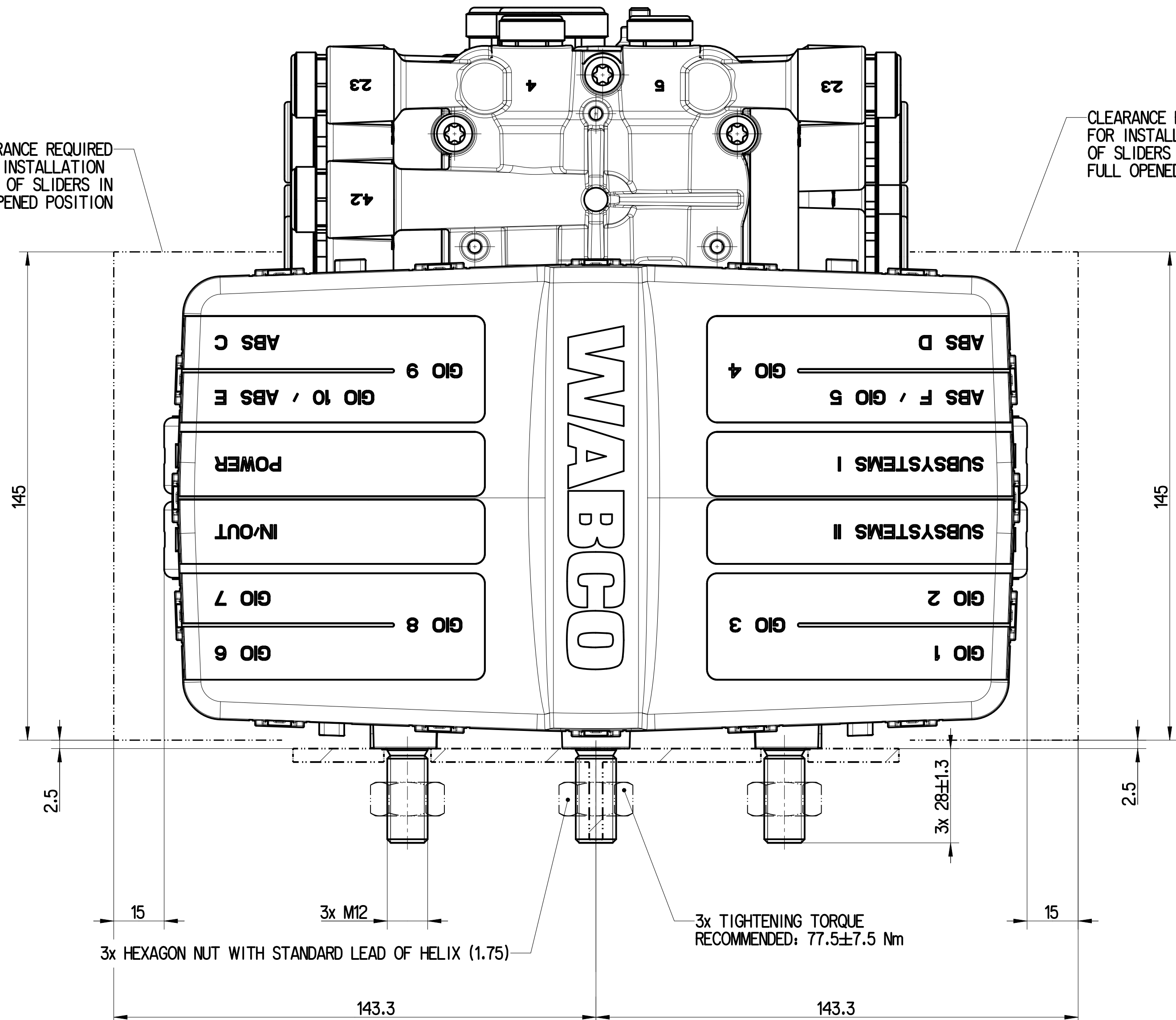


|                   | ΔX<br>[mm] | ΔY<br>[mm] | Δα   | Δβ   | Δθ        |
|-------------------|------------|------------|------|------|-----------|
| RSS NOT ACTIVATED | -          | -          | ±15° | ±15° | ±15° (46) |
| RSS ACTIVATED     | 600        | 500        | ±15° | ±3°  | ±3° (46)  |

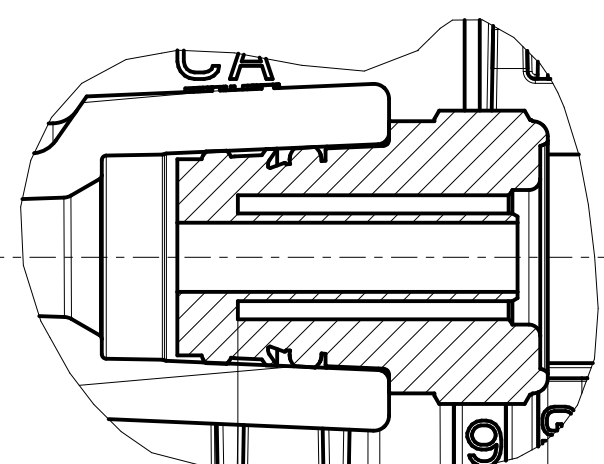
|                   | ΔX1<br>[mm] | ΔX2<br>[mm] | ΔY1<br>[mm] | ΔY2<br>[mm] | Δα   | Δβ   | Δθ        |
|-------------------|-------------|-------------|-------------|-------------|------|------|-----------|
| RSS NOT ACTIVATED | -           | -           | -           | -           | ±15° | ±15° | ±15° (47) |
| RSS ACTIVATED     | 2000        | 9000        | 1000        | 50          | ±15° | ±3°  | ±3° (47)  |

CLEARANCE REQUIRED  
FOR INSTALLATION  
OF SLIDERS IN  
FULL OPENED POSITION

CLEARANCE REQUIRED  
FOR INSTALLATION  
OF SLIDERS IN  
FULL OPENED POSITION



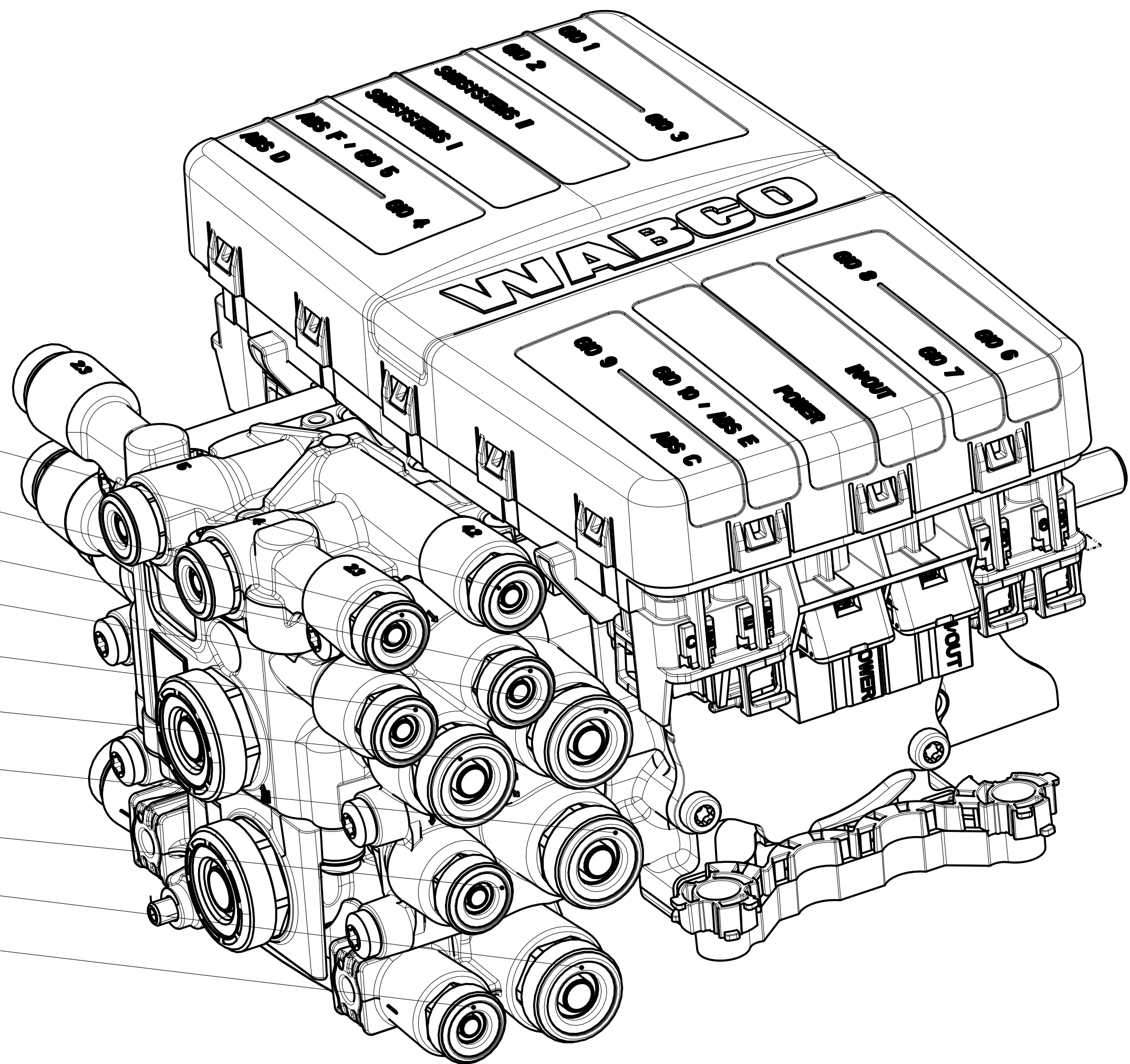
A4-A4  
2:1



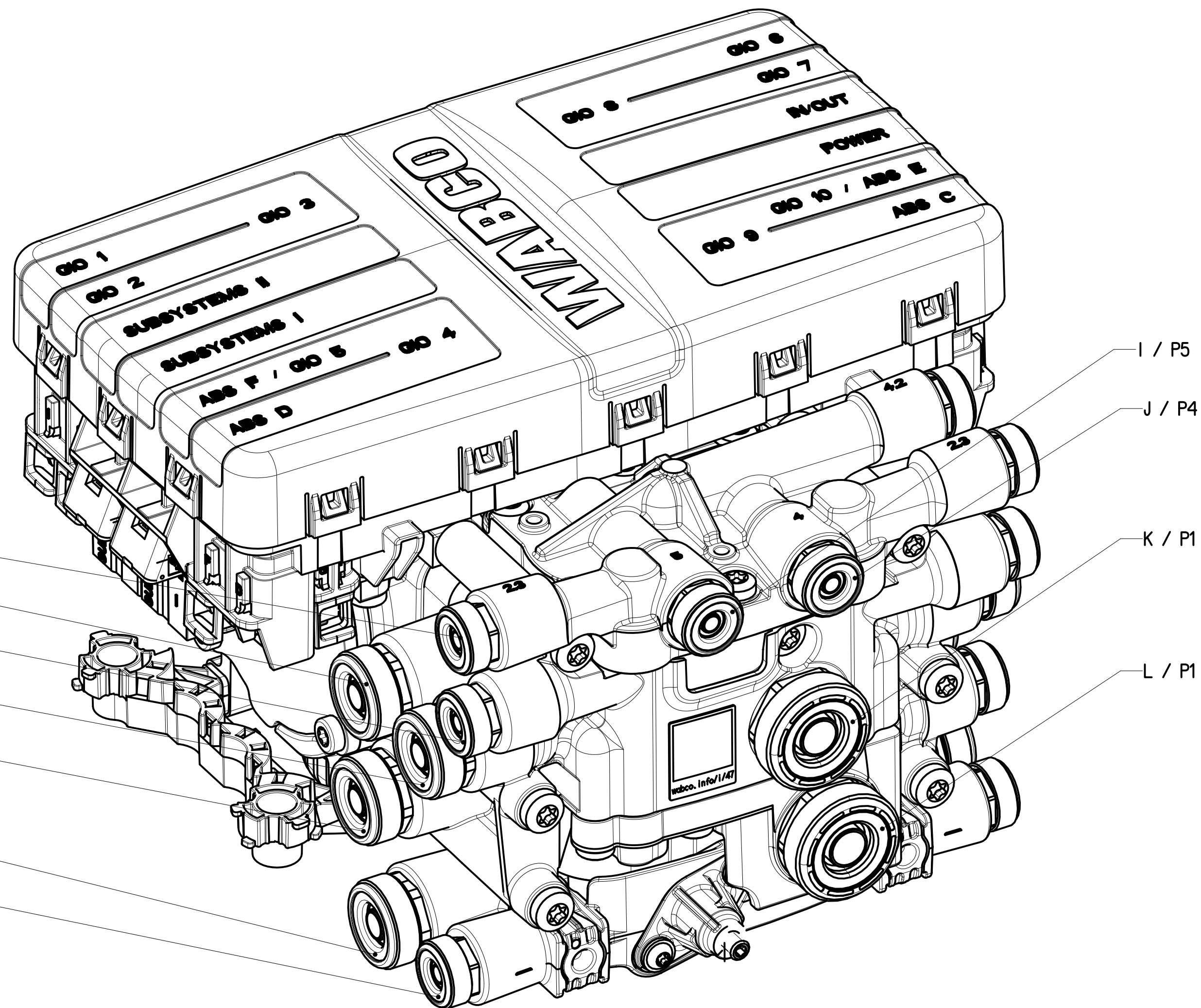
PUSH-IN LENGTH (48)

| TUBE   | PUSH-IN LENGTH |
|--------|----------------|
| 8x1    | 20.5           |
| 10x1   | 24             |
| 12x1.5 | 25             |
| 15x1.5 | 27             |
| 16x2   | 27             |

C / P4.2  
A / P2.3  
D / P1  
F / P2.2  
B / P2.3  
E / P2.2  
G / P2.2  
H / P2.4  
S / P1.1  
R / P1.1



M / P2.3  
O / P2.1  
N / P2.3  
P / P2.1  
Q / P2.1  
T / P1.1  
U / P1.1



| VARIANT                     |                     |                           | BASIC STEEL   |               | BASIC AIR     |               |               | STANDARD                       |                                |                                                 |               | PREMIUM                        |                                |                                |               |
|-----------------------------|---------------------|---------------------------|---------------|---------------|---------------|---------------|---------------|--------------------------------|--------------------------------|-------------------------------------------------|---------------|--------------------------------|--------------------------------|--------------------------------|---------------|
| WABCO IDENTIFICATION NUMBER |                     |                           | 480 102 105 0 | 480 102 106 0 | 480 102 201 0 | 480 102 202 0 | 480 102 203 0 | 480 102 301 0<br>480 102 311 0 | 480 102 302 0<br>480 102 312 0 | 480 102 303 0<br>480 102 313 0<br>480 102 323 0 | 480 102 305 0 | 480 102 401 0<br>480 102 411 0 | 480 102 402 0<br>480 102 412 0 | 480 102 403 0<br>480 102 413 0 | 480 102 405 0 |
| COVER COLOR                 |                     |                           | BLACK         |               | BLACK         |               |               | BLUE RAL 5017                  |                                |                                                 |               | GREEN RAL 6002                 |                                |                                |               |
| S                           | PORT IDENTIFICATION |                           |               |               |               |               |               |                                |                                |                                                 |               |                                |                                |                                |               |
|                             | A                   | P 2.3                     | 8x1           | 8x1           | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | 8x1           | 8x1                            | 8x1                            | 8x1                            | 8x1           |
|                             | B                   | P 2.3                     | 8x1           | 8x1           | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | 8x1           | 8x1                            | 8x1                            | 8x1                            | 8x1           |
|                             | C                   | P 4.2                     | 8x1           | 8x1           | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | 8x1           | 8x1                            | 8x1                            | 8x1                            | 8x1           |
|                             | D                   | P 1                       | 8x1           | 8x1           | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | 8x1           | 8x1                            | 8x1                            | 8x1                            | 8x1           |
|                             | E                   | P 2.2                     | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                                          | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                         | 12x1.5        |
|                             | F                   | P 2.2                     | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                                          | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                         | 12x1.5        |
|                             | G                   | P 2.2                     | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                                          | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                         | 12x1.5        |
|                             | H                   | P 2.4                     | 8x1           | 8x1           | 8x1           | CLOSED        | 8x1           | 8x1                            | CLOSED                         | 8x1                                             | 8x1           | 8x1                            | CLOSED                         | 8x1                            | 8x1           |
|                             | I                   | P 5                       | CLOSED        | CLOSED        | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | CLOSED        | 8x1                            | 8x1                            | 8x1                            | CLOSED        |
|                             | J                   | P 4                       | 8x1           | 8x1           | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | 8x1           | 8x1                            | 8x1                            | 8x1                            | 8x1           |
|                             | K                   | P 1                       | 15x1.5        | 16x2          | 16x2          | 15x1.5        | 15x1.5        | 16x2                           | 15x1.5                         | 15x1.5                                          | 15x1.5        | 16x2                           | 15x1.5                         | 15x1.5                         | 15x1.5        |
|                             | L                   | P 1                       | 15x1.5        | 16x2          | 16x2          | 15x1.5        | 15x1.5        | 16x2                           | 15x1.5                         | 15x1.5                                          | 15x1.5        | 16x2                           | 15x1.5                         | 15x1.5                         | 15x1.5        |
|                             | M                   | P 2.3                     | 8x1           | 8x1           | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | 8x1           | 8x1                            | 8x1                            | 8x1                            | 8x1           |
|                             | N                   | P 2.3                     | 8x1           | 8x1           | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | 8x1           | 8x1                            | 8x1                            | 8x1                            | 8x1           |
|                             | O                   | P 2.1                     | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                                          | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                         | 12x1.5        |
| P                           | P 2.1               | 12x1.5                    | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                                          | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                         |               |
| Q                           | P 2.1               | 12x1.5                    | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                                          | 12x1.5        | 12x1.5                         | 12x1.5                         | 12x1.5                         |               |
| R                           | P 1.1               | SUPPLY FOR AIR SUSPENSION | N.A.          | N.A.          | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             | N.A.          | 8x1                            | 8x1                            | 8x1                            | N.A.          |
| S                           | P 1.1               |                           |               |               | 8x1           | 8x1           | 12x1.5        | 8x1                            | 12x1.5                         | 8x1                                             |               | 8x1                            | 8x1                            | 12x1.5                         |               |
| T                           | P 1.1               |                           |               |               | 8x1           | 8x1           | 12x1.5        | 8x1                            | 12x1.5                         | 8x1                                             |               | 8x1                            | 8x1                            | 12x1.5                         |               |
| U                           | P 1.1               |                           |               |               | 8x1           | 8x1           | 8x1           | 8x1                            | 8x1                            | 8x1                                             |               | 8x1                            | 8x1                            | 8x1                            |               |

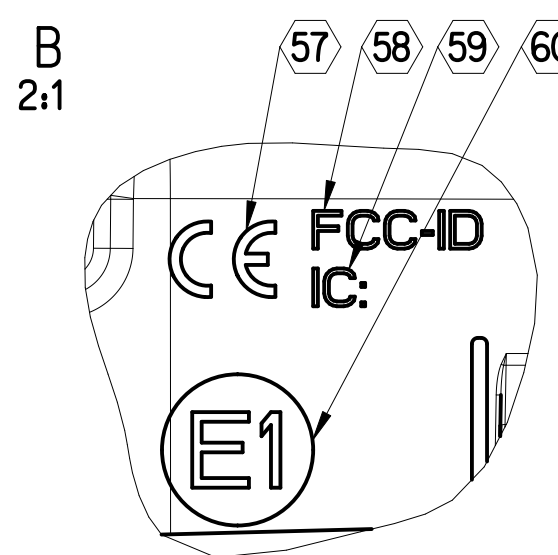
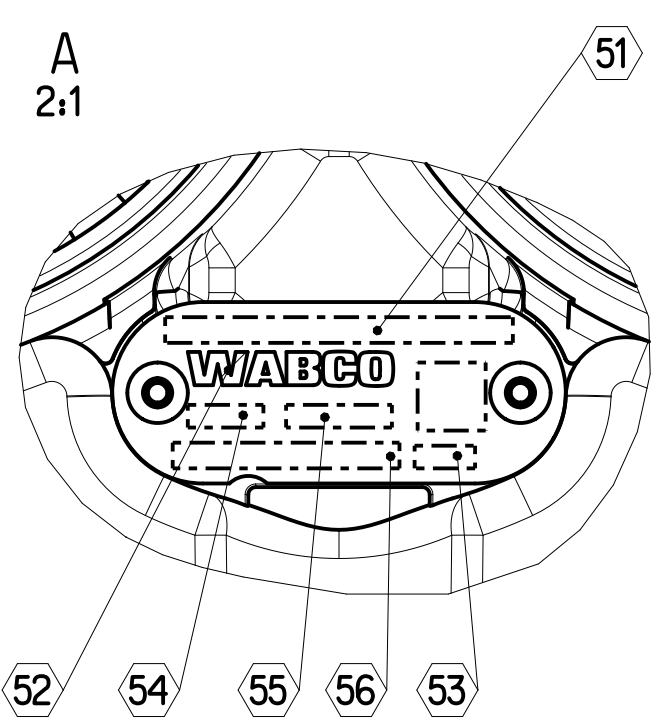
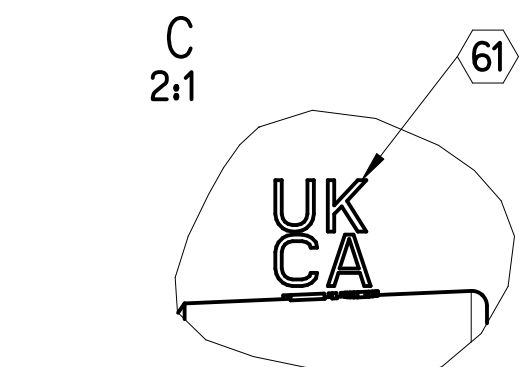
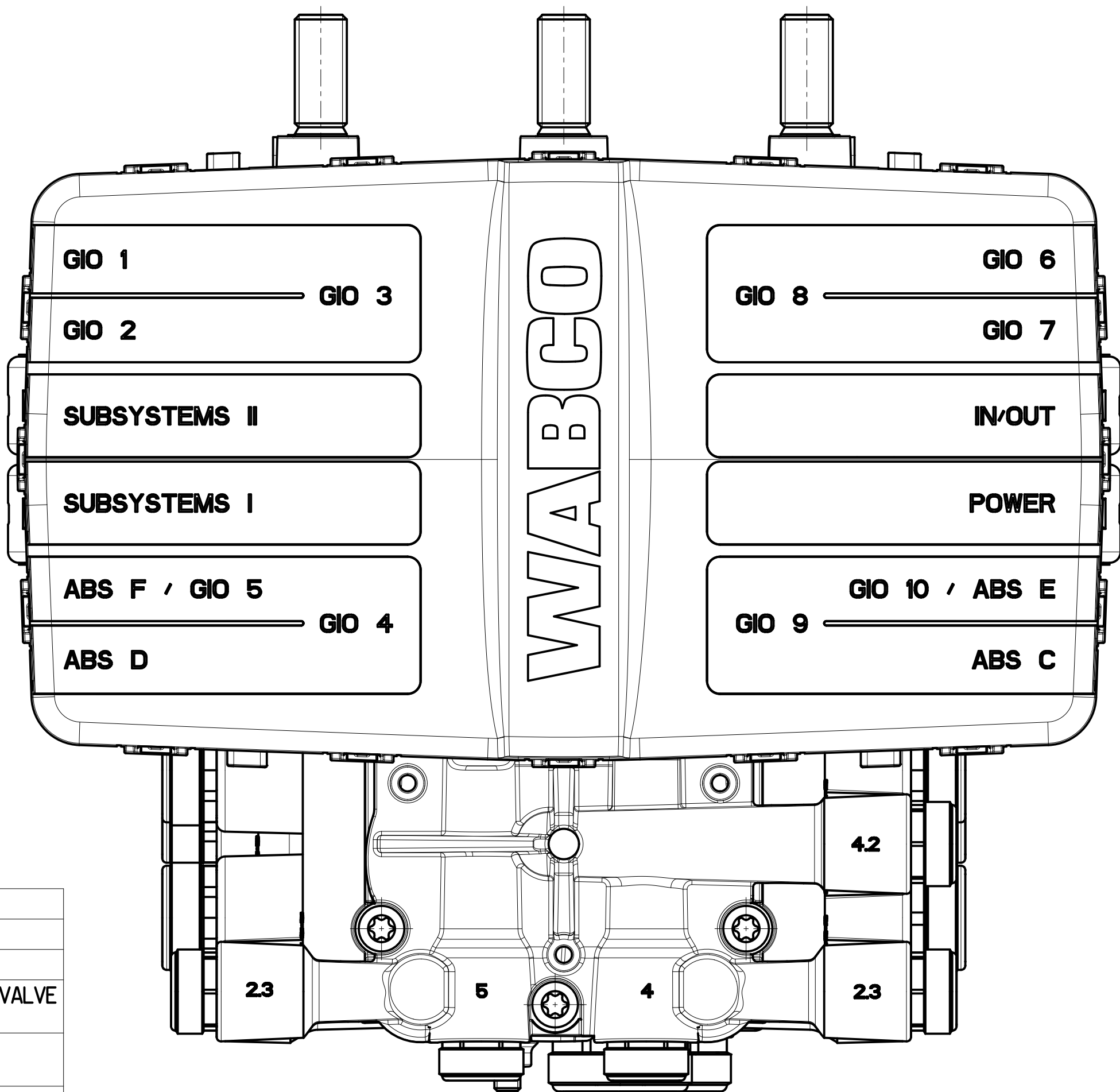
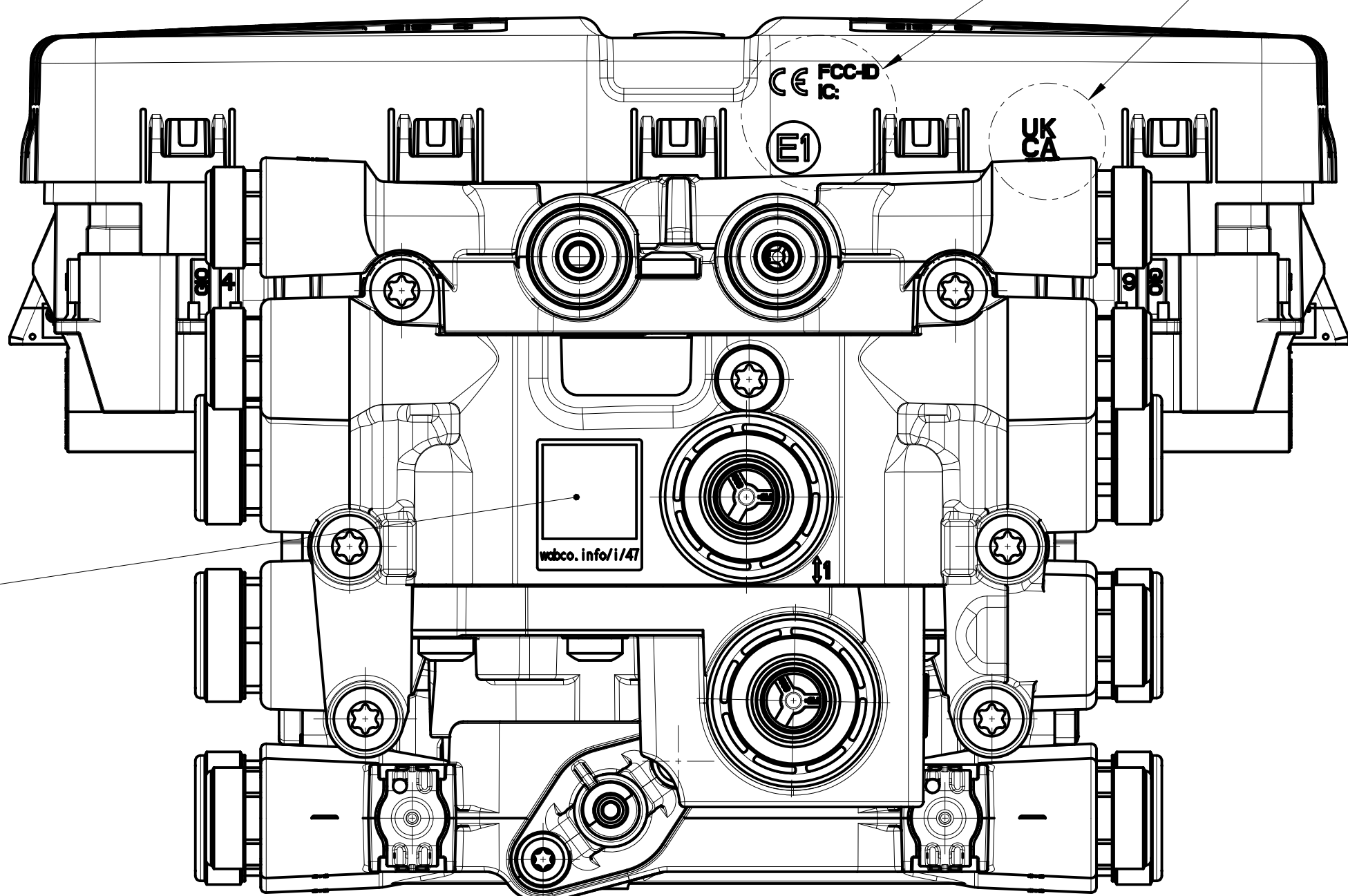
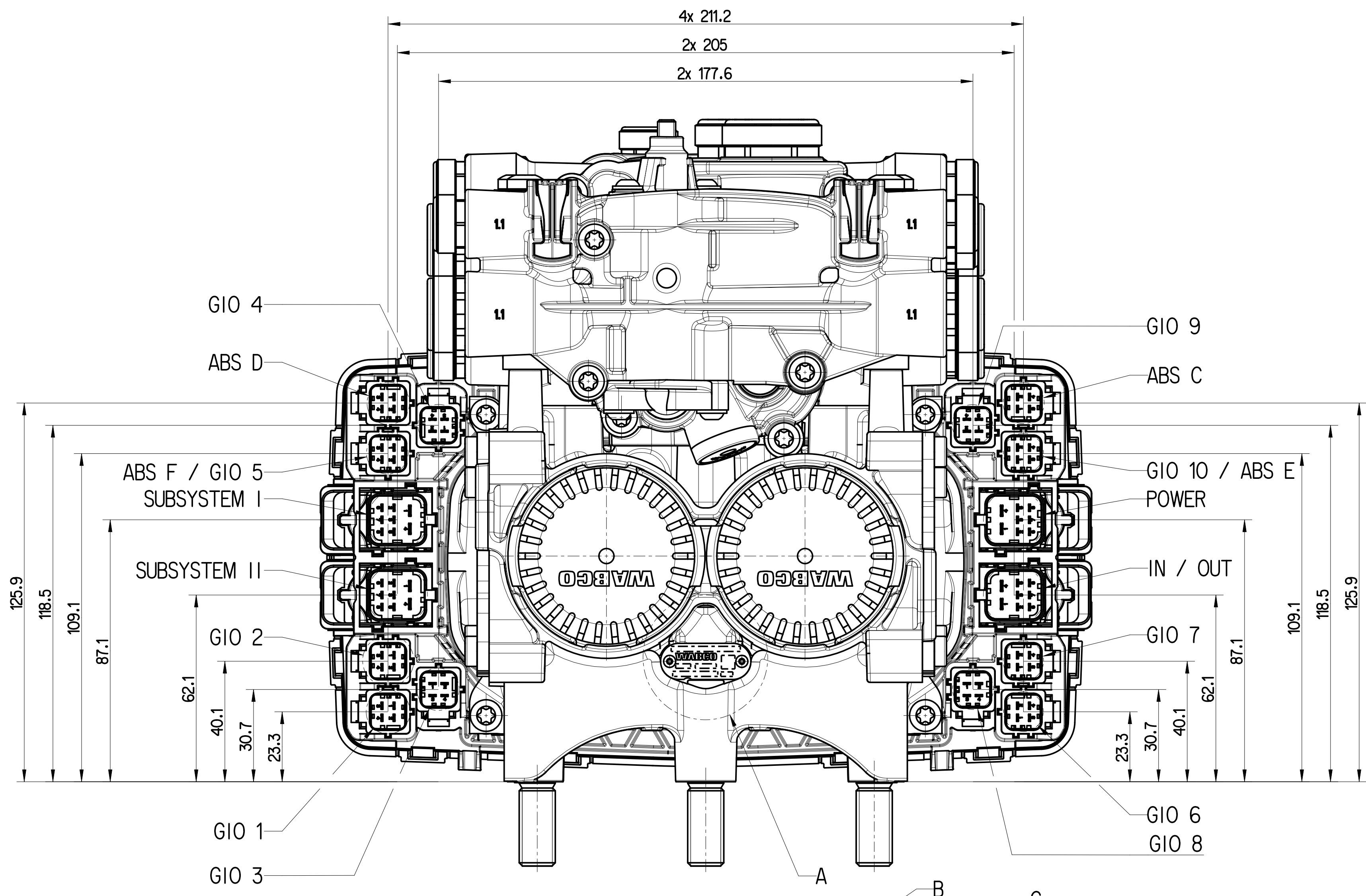
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| 5    | ELECTRICAL CONNECTION FOR ALL VARIANTS                                    |

|                                                               |  |                                   |  |                  |  |
|---------------------------------------------------------------|--|-----------------------------------|--|------------------|--|
| General Specification: ISO 8016, AFD-334-1, Size 150 14425 LP |  | Copyright 2025                    |  | EBS              |  |
| Further Technical Data                                        |  | Date                              |  | System           |  |
| Doc. Code                                                     |  | Sheet                             |  | To               |  |
| 2025-04-03                                                    |  | Stephan                           |  | 2025-04-03       |  |
| 2025-04-03                                                    |  | Widmann                           |  | 2025-04-03       |  |
| Class                                                         |  | Range of nominal dimensions in mm |  | Dimensions in mm |  |
| Fine                                                          |  | 11 ± 0.05                         |  | 11 ± 0.05        |  |
| Medium                                                        |  | 12 ± 0.1                          |  | 12 ± 0.1         |  |
| Coarse                                                        |  | 15 ± 0.2                          |  | 15 ± 0.2         |  |
| Tapped Holes acc.                                             |  | 16 ± 0.2                          |  | 16 ± 0.2         |  |
| 1) Tolerance Class (DIN 9133)                                 |  | 16 ± 0.2                          |  | 16 ± 0.2         |  |
| SEE TABLE 1:1                                                 |  | 480 102 100 0                     |  | 053 EN 4/5       |  |
| A 0                                                           |  | 020                               |  | 02 H 680         |  |
| 1602                                                          |  | 57647                             |  | 1602             |  |



ALL VIEWS ON THIS PAGE SHOWN WITHOUT PROTECTIVE CAPS AND WITHOUD CABLE FIXATION BRACKET



| VARIANT                     |  |        | BASIC STEEL                                                                             | BASIC AIR                                                                               | STANDARD                                                                                                               | PREMIUM                                                                                                                |
|-----------------------------|--|--------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| WABCO IDENTIFICATION NUMBER |  |        | 480 102 1XX 0                                                                           | 480 102 2XX 0                                                                           | 480 102 3XX 0                                                                                                          | 480 102 4XX 0                                                                                                          |
| COVER COLOR                 |  |        | BLACK                                                                                   | BLACK                                                                                   | BLUE RAL 5017                                                                                                          | GREEN RAL 6002                                                                                                         |
| ABS D<br>2:1                |  | OPEN   | 1 -<br>2 -<br>3 IG (H1)<br>4 IGM (H1)                                                   | 1 -<br>2 -<br>3 IG (H1)<br>4 IGM (H1)                                                   | 1 -<br>2 -<br>3 IG (H1)<br>4 IGM (H1)                                                                                  | 1 -<br>2 -<br>3 IG (H1)<br>4 IGM (H1)                                                                                  |
| GIO 4<br>2:1                |  | CLOSED | -                                                                                       | -                                                                                       | -                                                                                                                      | 1 SA 10-1 (VOLTAGE SENSE)<br>2 GND<br>3 IN-8<br>4 SA 10-2 (VOLTAGE SENSE)                                              |
| ABS F / GIO 5<br>2:1        |  | CLOSED | 1 -<br>2 -<br>3 IG (Z1)<br>4 IGM (Z1)                                                   | -                                                                                       | 1 -<br>2 -<br>3 IG (Z1)<br>4 IGM (Z1)                                                                                  | 1 SA 11-1<br>2 GND<br>3 IG (Z1)<br>4 IGM (Z1)                                                                          |
| SUBSYSTEM I<br>2:1          |  | CLOSED | 1 KL 30-1<br>2 -<br>3 -<br>4 GND<br>5 CAN 1H<br>6 -<br>7 -<br>8 CAN 1L                  | 1 KL 30-1<br>2 -<br>3 -<br>4 GND<br>5 CAN 1H<br>6 -<br>7 -<br>8 CAN 1L                  | 1 KL 30-1<br>2 -<br>3 -<br>4 GND<br>5 CAN 1H<br>6 LIN 1<br>7 SA LIN 12V<br>8 CAN 1L                                    | 1 KL 30-1<br>2 -<br>3 -<br>4 GND<br>5 CAN 1H<br>6 LIN 1<br>7 SA LIN 12V<br>8 CAN 1L                                    |
| SUBSYSTEM II<br>2:1         |  | CLOSED | -                                                                                       | -                                                                                       | 1 KL 30-2<br>2 -<br>3 -<br>4 GND<br>5 CAN 2H<br>6 -<br>7 -<br>8 CAN 2L                                                 | 1 KL 30-2<br>2 -<br>3 -<br>4 GND<br>5 CAN 2H<br>6 LIN 1<br>7 SA LIN 12V<br>8 CAN 2L                                    |
| GIO 2<br>2:1                |  | CLOSED | 1 SA 6-2 (1A) (VOLTAGE SENSE)<br>2 GND<br>3 IN-4<br>4 -                                 | 1 SA 6-2 (1A) (VOLTAGE SENSE)<br>2 GND<br>3 IN-4<br>4 -                                 | 1 SA 6-2 (6A) (VOLTAGE SENSE)<br>2 GND<br>3 CAN 3H 13rd MOD<br>4 CAN 3L 13rd MOD                                       | 1 SA 6-2 (6A) (VOLTAGE SENSE)<br>2 GND<br>3 CAN 3H 13rd MOD<br>4 CAN 3L 13rd MOD                                       |
| GIO 3<br>2:1                |  | CLOSED | -                                                                                       | -                                                                                       | -                                                                                                                      | 1 SA 1-1 (CURRENT SENSE)<br>2 GND SA 1<br>3 IN-6/PROXIMITY<br>4 SA 1-2 (CURRENT SENSE)                                 |
| GIO 1<br>2:1                |  | CLOSED | 1 SA 6-1 (1A) (VOLTAGE SENSE)<br>2 GND<br>3 IN-4<br>4 PWM 1/D-IN 1                      | 1 SA 6-1 (1A) (VOLTAGE SENSE)<br>2 GND<br>3 IN-4<br>4 -                                 | 1 SA 6-1 (1A) (VOLTAGE SENSE)<br>2 GND<br>3 IN-4<br>4 PWM 1/D-IN 1                                                     | 1 SA 6-1 (1A) (VOLTAGE SENSE)<br>2 GND<br>3 IN-4<br>4 PWM 1/D-IN 1                                                     |
| ABS C<br>2:1                |  | OPEN   | 1 -<br>2 -<br>3 IG (H2)<br>4 IGM (H2)                                                   | 1 -<br>2 -<br>3 IG (H2)<br>4 IGM (H2)                                                   | 1 -<br>2 -<br>3 IG (H2)<br>4 IGM (H2)                                                                                  | 1 -<br>2 -<br>3 IG (H2)<br>4 IGM (H2)                                                                                  |
| GIO 9<br>2:1                |  | CLOSED | -                                                                                       | -                                                                                       | -                                                                                                                      | 1 SA 5-2 (VOLTAGE SENSE)<br>2 GND<br>3 IN-7<br>4 PWM 2/D-IN 2                                                          |
| GIO 10 / ABS E<br>2:1       |  | CLOSED | 1 -<br>2 -<br>3 IG (Z2)<br>4 IGM (Z2)                                                   | -                                                                                       | 1 -<br>2 -<br>3 IG (Z2)<br>4 IGM (Z2)                                                                                  | 1 SA 5-1 (VOLTAGE SENSE)<br>2 GND<br>3 IG (Z2)<br>4 IGM (Z2)                                                           |
| POWER<br>2:1                |  | OPEN   | 1 KL 30<br>2 KL 15<br>3 GND-E<br>4 GND-ISO<br>5 WALA<br>6 CANH 24V<br>7 CANL 24V<br>8 - | 1 KL 30<br>2 KL 15<br>3 GND-E<br>4 GND-ISO<br>5 WALA<br>6 CANH 24V<br>7 CANL 24V<br>8 - | 1 KL 30<br>2 KL 15<br>3 GND-E<br>4 GND-ISO<br>5 WALA<br>6 CANH 24V<br>7 CANL 24V<br>8 -                                | 1 KL 30<br>2 KL 15<br>3 GND-E<br>4 GND-ISO<br>5 WALA<br>6 CANH 24V<br>7 CANL 24V<br>8 -                                |
| IN / OUT<br>2:1             |  | CLOSED | 1 24N-IN<br>2 -<br>3 -<br>4 GND-24N<br>5 IN 1 (TH)<br>6 -<br>7 -<br>8 -                 | 1 24N-IN<br>2 IN 2 (RW)<br>3 -<br>4 GND-24N<br>5 IN 1 (TH)<br>6 -<br>7 -<br>8 GND       | 1 24N-IN<br>2 IN 2 (RW)<br>3 IN 3 (ML)<br>4 GND-24N<br>5 IN 1 (TH)<br>6 SA 3-1 (ML-R/L)<br>7 SA 3-2 (BATTERY)<br>8 GND | 1 24N-IN<br>2 IN 2 (RW)<br>3 IN 3 (ML)<br>4 GND-24N<br>5 IN 1 (TH)<br>6 SA 3-1 (ML-R/L)<br>7 SA 3-2 (BATTERY)<br>8 GND |
| GIO 7<br>2:1                |  | CLOSED | -                                                                                       | -                                                                                       | 1 SA 2-1 (CURRENT SENSE)<br>2 GND SA 2<br>3 SA 9-1 (CURRENT SENSE)<br>4 SA 2-2 (CURRENT SENSE)                         | 1 SA 2-1 (CURRENT SENSE)<br>2 GND SA 2<br>3 SA 9-1 (CURRENT SENSE)<br>4 SA 2-2 (CURRENT SENSE)                         |
| GIO 8<br>2:1                |  | CLOSED | -                                                                                       | -                                                                                       | -                                                                                                                      | 1 SA 8-1 (AV) (CURRENT SENSE)<br>2 GND EV/AV/RV<br>3 SA 9-2 (RV) (CURRENT SENSE)<br>4 SA 8-2 (EV) (CURRENT SENSE)      |
| GIO 6<br>2:1                |  | CLOSED | -                                                                                       | 1 -<br>2 GND<br>3 IN-5<br>4 -                                                           | 1 SA 7-1 (VOLTAGE SENSE)<br>2 GND<br>3 IN-5/PROXIMITY<br>4 SA 7-2 (VOLTAGE SENSE)                                      | 1 SA 7-1 (VOLTAGE SENSE)<br>2 GND<br>3 IN-5/PROXIMITY<br>4 SA 7-2 (VOLTAGE SENSE)                                      |

| NO.      | CONTENT                     | HEIGHT | BASIC STEEL   | BASIC AIR     | STANDARD      | PREMIUM        |
|----------|-----------------------------|--------|---------------|---------------|---------------|----------------|
| WABCO ID |                             |        | 480 102 1XX 0 | 480 102 2XX 0 | 480 102 3XX 0 | 480 102 4XX 0  |
| COLOR    |                             |        | BLACK         | BLACK         | BLUE RAL 5017 | GREEN RAL 6002 |
| 51       | COUNTRY OF ORIGIN           | 1.7    | X             | X             | X             | X              |
| 52       | WABCO LOGO                  | 2.2    | X             | X             | X             | X              |
| 53       | FRI                         | >1.5   | X             | X             | X             | X              |
| 54       | DATE OF MANUFACTURE WYYY    | >1.5   | X             | X             | X             | X              |
| 55       | SERIAL NUMBER 6 DIGITS      |        | X             | X             | X             | X              |
| 56       | WABCO IDENTIFICATION NUMBER | 1.7    | X             | X             | X             | X              |
| 57       | CE MARKING                  | 5      | -             | -             | X             | X              |
| 58       | FCC IDENTIFIER              | 2.5    | -             | -             | X             | X              |
| 59       | IC IDENTIFIER               | 2.5    | -             | -             | X             | X              |
| 60       | EEC HOMOLOGATION MARK       | 14     | X             | X             | X             | X              |
| 61       | UKCA MARKING                | 7      | -             | -             | X             | X              |

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| General Specifications ISO 9001, ISO 14001, ISO 15001, ISO 15002, ISO 15003, ISO 15004, ISO 15005, ISO 15006, ISO 15007, ISO 15008, ISO 15009, ISO 15010, ISO 15011, ISO 15012, ISO 15013, ISO 15014, ISO 15015, ISO 15016, ISO 15017, ISO 15018, ISO 15019, ISO 15020, ISO 15021, ISO 15022, ISO 15023, ISO 15024, ISO 15025, ISO 15026, ISO 15027, ISO 15028, ISO 15029, ISO 15030, ISO 15031, ISO 15032, ISO 15033, ISO 15034, ISO 15035, ISO 15036, ISO 15037, ISO 15038, ISO 15039, ISO 15040, ISO 15041, ISO 15042, ISO 15043, ISO 15044, ISO 15045, ISO 15046, ISO 15047, ISO 15048, ISO 15049, ISO 15050, ISO 15051, ISO 15052, ISO 15053, ISO 15054, ISO 15055, ISO 15056, ISO 15057, ISO 15058, ISO 15059, ISO 15060, ISO 15061, ISO 15062, ISO 15063, ISO 15064, ISO 15065, ISO 15066, ISO 15067, ISO 15068, ISO 15069, ISO 15070, ISO 15071, ISO 15072, ISO 15073, ISO 15074, ISO 15075, ISO 15076, ISO 15077, ISO 15078, ISO 15079, ISO 15080, ISO 15081, ISO 15082, ISO 15083, ISO 15084, ISO 15085, ISO 15086, ISO 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