



5/8 KV CABLE COUPLERS FOR FIXED AND PORTABLE CABLE SYSTEMS





Couplers are utilized in industrial, oil and gas, surface and underground mining, strip, and pit operations. Couplers provide safe, convenient means for connecting fixed or portable cable rated up to 8,000 volt and up to 700 Amperes, copper or aluminum conductor to mining equipment, electric shovels, drag lines, loaders, barges, tunneling machines, portable substations, portable junction boxes, or for joining lengths of high voltage cables.

CHARACTERISTICS

- Corrosion resistant aluminum ASTM / ALCAN.
- Durable insulators that resist cracking or other defects that can lead to tracking.
- Copper male and female contacts 99.9% ASTM B-187.
- Cable entry and gripping, consisting of a clamp and sealing arrangement, which will provide a secure grip on the cable and a watertight seal.
- Weather resistant: IP68.
- Replaceable parts.
- The use of compound insulation is recommended for place with high humidity and several temperature changes.

- 1 minute dry withstand AC: 35 kV.
- 15 minutes dry withstand AC: 15 kV.
- 15 minutes dry withstand DC: 45 kV.
- Impulse voltage $1.2 \times 50 \mu s$: 75kV BIL.
- IEC 60502-4: Test requirements on accessories for cables with rated voltages from 6 kV ($U_m = 7,2$ kV) up to 30 kV ($U_m = 36$ kV).
- IEEE-48: Standard Terminations rated 2.5 kV through 765 kV or Extruded Insulation Rated 2.5 kV through 500 kV.
- IEC 60529: Degrees of protection IP
- CAN/CSA M421: The ground pin makes first and breaks last and the pilot pin makes last and breaks first.



APPLICATIONS

- Electric shovels
- Drilling rigs
- Tunnel boring machines
- Pumps
- Portable substations

Part Number		Description	Referential image
Female	Male		
PM0825F-45	PM0825M-45	Coupler 5/8 kV - 250A Max diameter. Cable: 1.78" (45mm) (3PHASE+ 1GROUND+1PILOT)	 Weight: 12kg Length: 490mm Values per coupler.
PM0825F-50	PM0825M-50	Coupler 5/8 kV - 250A Max diameter. Cable: 1.96" (50mm) (3PHASE+ 1GROUND+1PILOT)	
PM0825F-55	PM0825M-55	Coupler 5/8kV - 250A Max diameter. cable: 2.16"(55mm) (3PHASE+ 1GROUND+1PILOT)	
PM0825F-60	PM0825M-60	Coupler 5/8kV - 250A Max diameter. cable: 2.36"(60mm) (3PHASE+ 1GROUND+1PILOT)	
PM0825F-65	PM0825M-65	Coupler 5/8kV - 250A Max diameter. cable: 2.55"(65mm) (3PHASE+ 1GROUND+1PILOT)	
PM0825F-70	PM0825M-70	Coupler 5/8kV - 250A Max diameter. cable: 2.55"(70mm) (3PHASE+ 1GROUND+1PILOT)	
PM0825F-75	PM0825M-75	Coupler 5/8kV - 250A Max diameter. cable: 2.95"(75mm) (3PHASE+ 1GROUND+1PILOT)	
PM0825F-80	PM0825M-80	Coupler 5/8kV - 250A Max diameter. cable: 3.15"(80mm) (3PHASE+ 1GROUND+1PILOT)	

- Add suffix: -F for semi-fixed application
- Add suffix: -MI for mechanical interlocking
- Add suffix: -MIPL for mechanical interlocking with padlock

Part number		Description	Referential image
Female	Male		
PM0840F-55	PM0840M-55	Coupler 5/8kV - 400A Max diameter. cable: 2.16"(55mm) (3PHASE+ 2GROUND+1PILOT)	 Weight: 13.5kg Length: 490mm Values per coupler
PM0840F-60	PM0840M-60	Coupler 5/8kV - 400A Max diameter. cable: 2.36"(60mm) (3PHASE+ 2GROUND+1PILOT)	
PM0840F-65	PM0840M-65	Coupler 5/8kV - 400A Max diameter. cable: 2.55"(65mm) (3PHASE+ 2GROUND+1PILOT)	
PM0840F-70	PM0840M-70	Coupler 5/8kV - 400A Max diameter. cable: 2.55"(70mm) (3PHASE+ 2GROUND+1PILOT)	
PM0840F-75	PM0840M-75	Coupler 5/8kV - 400A Max diameter. cable: 2.95"(75mm) (3PHASE+ 2GROUND+1PILOT)	
PM0840F-80	PM0840M-80	Coupler 5/8kV - 400A Max diameter. cable: 3.15"(80mm) (3PHASE+ 2GROUND+1PILOT)	
PM0840F-85	PM0840M-85	Coupler 5/8kV - 400A Max diameter. cable: 3.35"(85mm) (3PHASE+ 2GROUND+1PILOT)	
PM0840F-90	PM0840M-90	Coupler 5/8kV - 400A Max diameter. cable: 3.54"(90mm) (3PHASE+ 2GROUND+1PILOT)	
PM0840F-95	PM0840M-95	Coupler 5/8kV - 400A Max diameter. cable: 3.74"(95mm) (3PHASE+ 2GROUND+1PILOT)	
PM0840F-100	PM0840M-100	Coupler 5/8kV - 400A Max diameter. cable: 3.94"(100mm) (3PHASE+ 2GROUND+1PILOT)	

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- Add suffix: -MI for mechanical interlocking
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Part number		Description	Referential image
Female	Male		
PM0863F-55	PM0863M-55	Coupler 5/8kV - 630A Max diameter. cable: 2.16"(55mm) (3PHASE+1- GROUND+1PILOT)	 Weight: 13.5kg Length: 490mm Values per coupler
PM0863F-60	PM0863M-60	Coupler 5/8kV - 630A Max diameter. cable: 2.36"(60mm) (3PHASE+1- GROUND+1PILOT)	
PM0863F-65	PM0863M-65	Coupler 5/8kV - 630A Max diameter. cable: 2.55"(65mm) (3PHASE+1- GROUND+1PILOT)	
PM0863F-70	PM0863M-70	Coupler 5/8kV - 630A Max diameter. cable: 2.55"(70mm) (3PHASE+1- GROUND+1PILOT)	
PM0863F-75	PM0863M-75	Coupler 5/8kV - 630A Max diameter. cable: 2.95"(75mm) (3PHASE+1- GROUND+1PILOT)	
PM0863F-80	PM0863M-80	Coupler 5/8kV - 630A Max diameter. cable: 3.15"(80mm) (3PHASE+1- GROUND+1PILOT)	
PM0863F-85	PM0863M-85	Coupler 5/8kV - 630A Max diameter. cable: 3.35"(85mm) (3PHASE+1- GROUND+1PILOT)	
PM0863F-90	PM0863M-90	Coupler 5/8kV - 630A Max diameter. cable: 3.54"(90mm) (3PHASE+1- GROUND+1PILOT)	
PM0863F-95	PM0863M-95	Coupler 5/8kV - 630A Max diameter. cable: 3.74"(95mm) (3PHASE+1- GROUND+1PILOT)	
PM0863F-100	PM0863M-100	Coupler 5/8kV - 630A Max diameter. cable: 3.94"(100mm) (3PHASE+1- GROUND+1PILOT)	

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Part number		Description	Referential image
Female	Male		
PM0870F-85	PM0870M-85	Coupler 5/8kV - 700A Max diameter. cable: 3.35"(85mm)(3PHASE+1- GROUND+1PILOT)	 Weight: 14kg Length: 490mm Values per coupler
PM0870F-90	PM0870M-90	Coupler 5/8kV - 700A Max diameter. cable: 3.54"(90mm)(3PHASE+1- GROUND+1PILOT)	
PM0870F-95	PM0870M-95	Coupler 5/8kV - 700A Max diameter. cable: 3.74"(95mm)(3PHASE+1- GROUND+1PILOT)	
PM0870F-100	PM0870M-100	Coupler 5/8kV - 700A Max diameter. cable: 3.94"(100mm)(3PHASE+1- GROUND+1PILOT)	

MODULAR SYSTEM OF SUBPIECES



VOLTAJE	
8KV	08

GENDER	
MALE	M
FEMALE	F

MOUNTING OPTIONS	
CABLE	C
EQUIPMENT	E

COPPER PINS TYPE	
CRIMPING	CR
SOLDER	SO
SCREW STEM	SC

PM	08
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40	M
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25	C
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01	CR
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FUNCTION	
PLUG	PM
RECEPTACLE	MA

CURRENT RATING	
AMP	PREFIX
250	25
400	40
630	63
700	70

CABLE O.D (ONLY FOR PM SERIES PLUG)	
20-25mm	25
25-30 mm	30
30-35 mm	35
35-40 mm	40
40-45 mm	45
45-50 mm	50
50-55 mm	55
55-60 mm	60
60-65 mm	65
65-70 mm	70
70-75 mm	75
75-80 mm	80
80-85 mm	85
85-90 mm	90
90-95 mm	95
95-100 mm	100

CONDUCTOR SIZE	
8 AWG	01
6 AWG	02
4 AWG	03
2 AWG	04
1 AWG	05
1/0 AWG	06
2/0 AWG	07
3/0 AWG	08
4/0 AWG	09
250 MCM	10
300 MCM	11
350 MCM	12
500 MCM	13

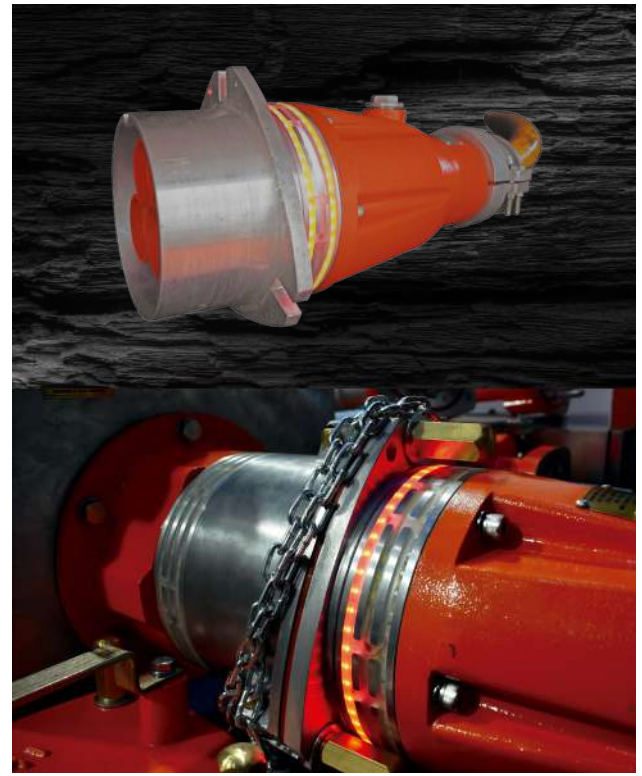
STANDARD CONTACT STRUCTURE			
AMPS	PHASE (MAIN)	GROUND	PILOT
250	3	1	1
400	3	2	1
630	3	1	1
700	3	1	1

LIVE LINE INDICATOR RING

- When unplugged, ground check conductor is firstly disconnected.
- This signal activates the protection system, disconnecting the cable (voltage and current, all phases).
- So, when unplugging the operator relays on the protection system in order not to receive an electroshock!!.
- With the Live-Line Indicator Ring, the operator can easily check the absence of medium voltage (MV) and unplug with confidence!.
- Complying with the "5 Golden rules working with MV": 3rd rule: Detect the absence of MV when the ring is off.

PEACE OF MIND!

To request, add the suffix LED to standard part number. EXAMPLE: PM0825M-55 LED.

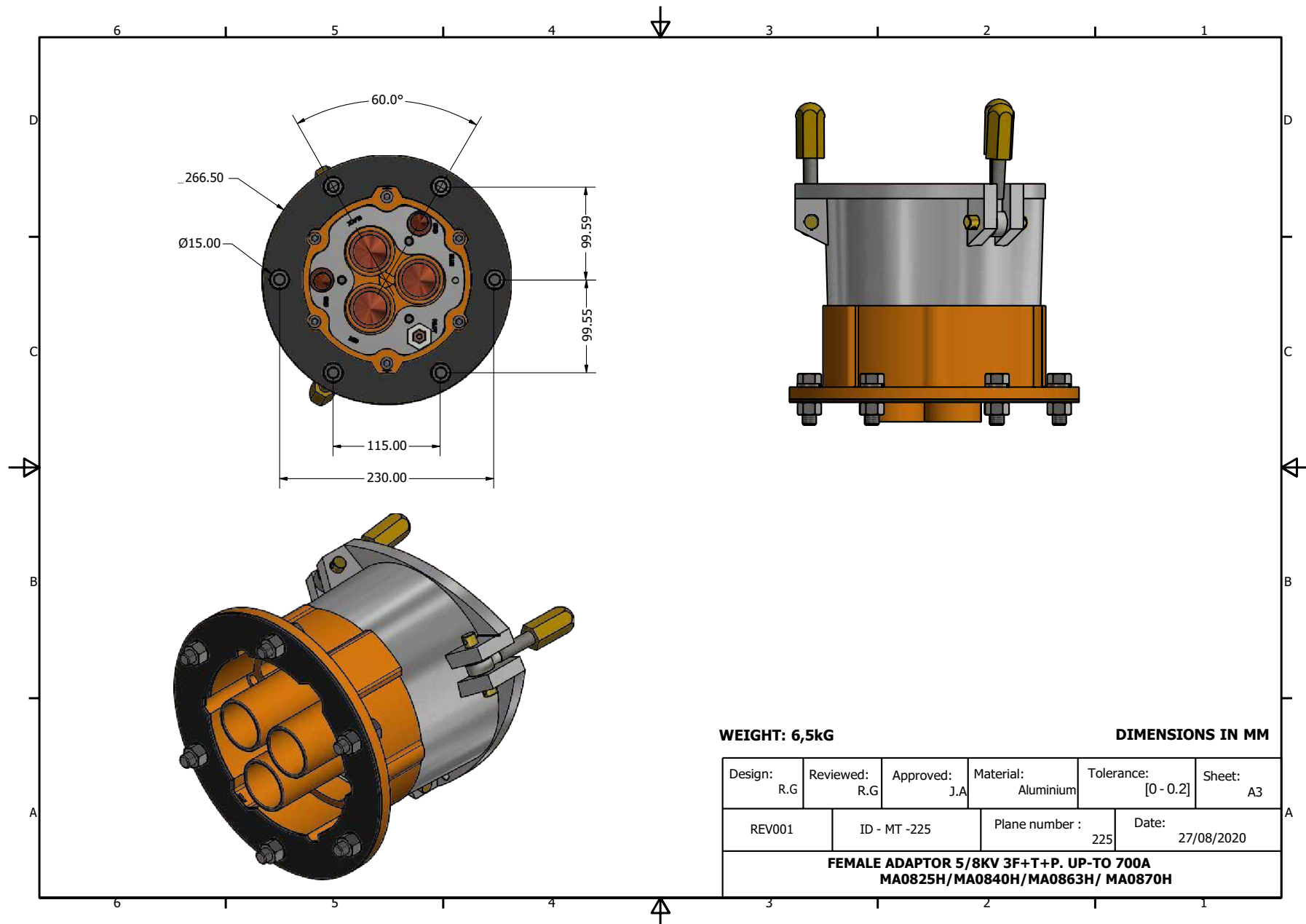


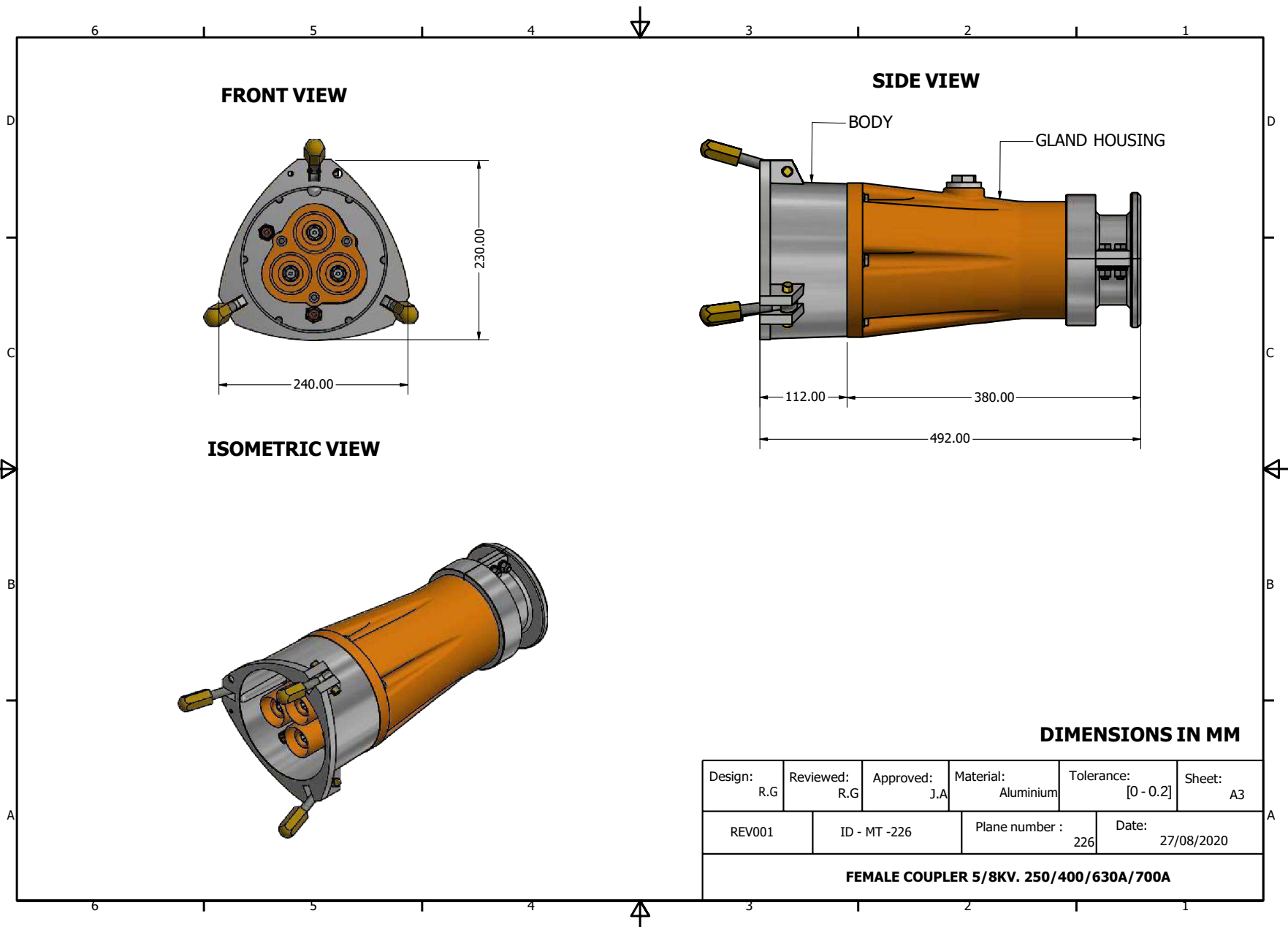
SPLITTER BOX 3 WAY 8,15 y 25Kv

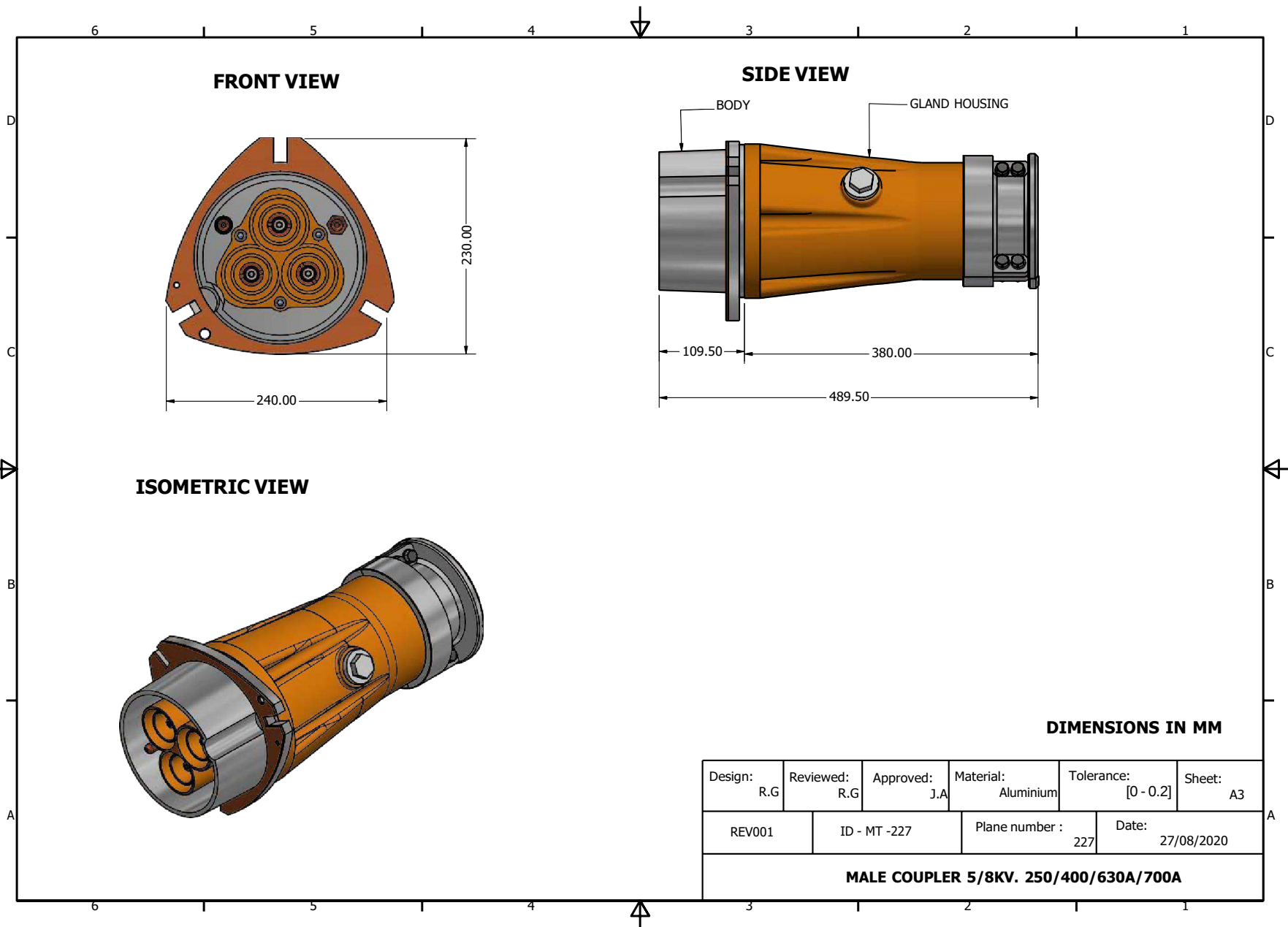


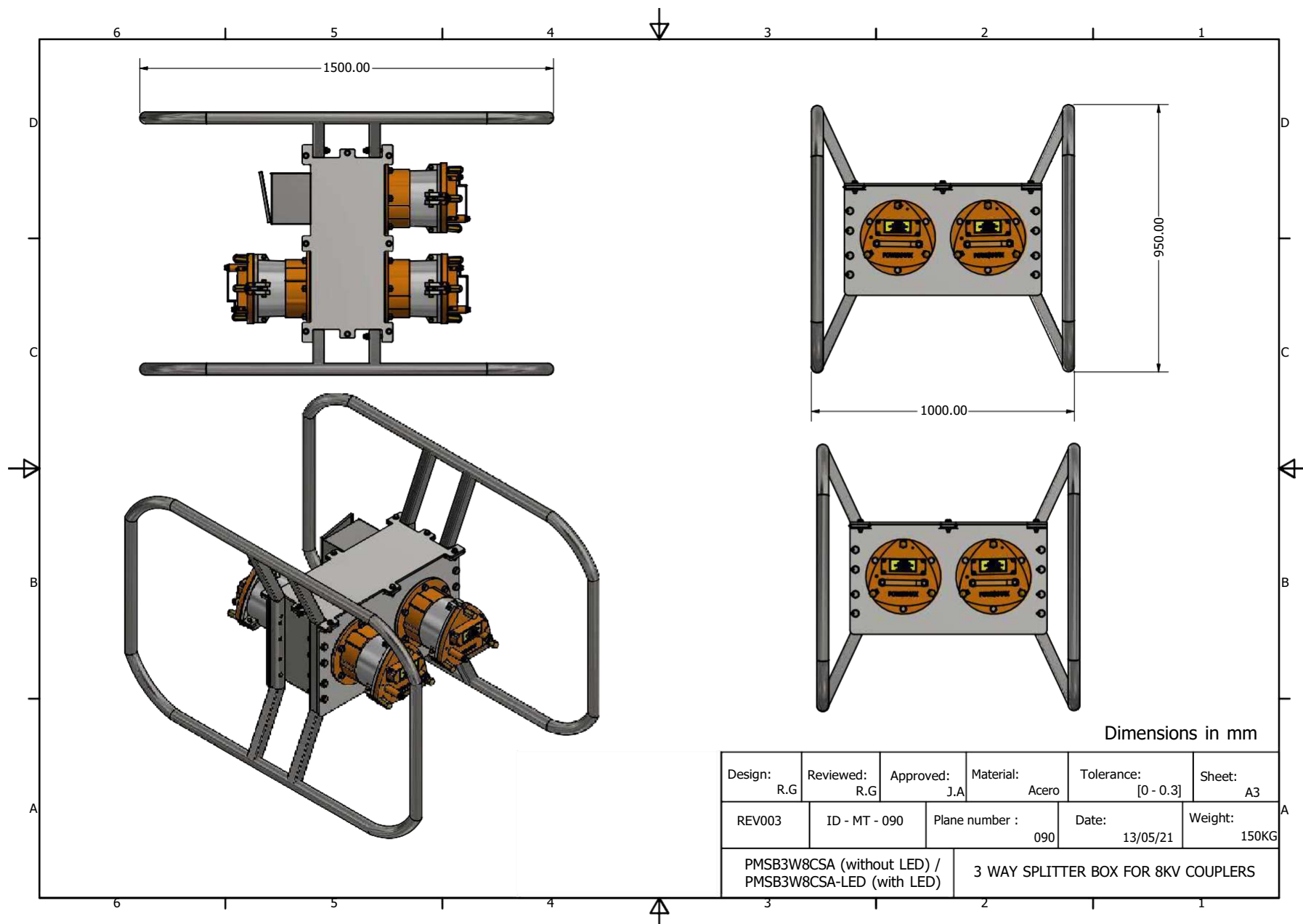
SKIDS FOR 5, 8, 15 AND 25KV CABLE COUPLERS

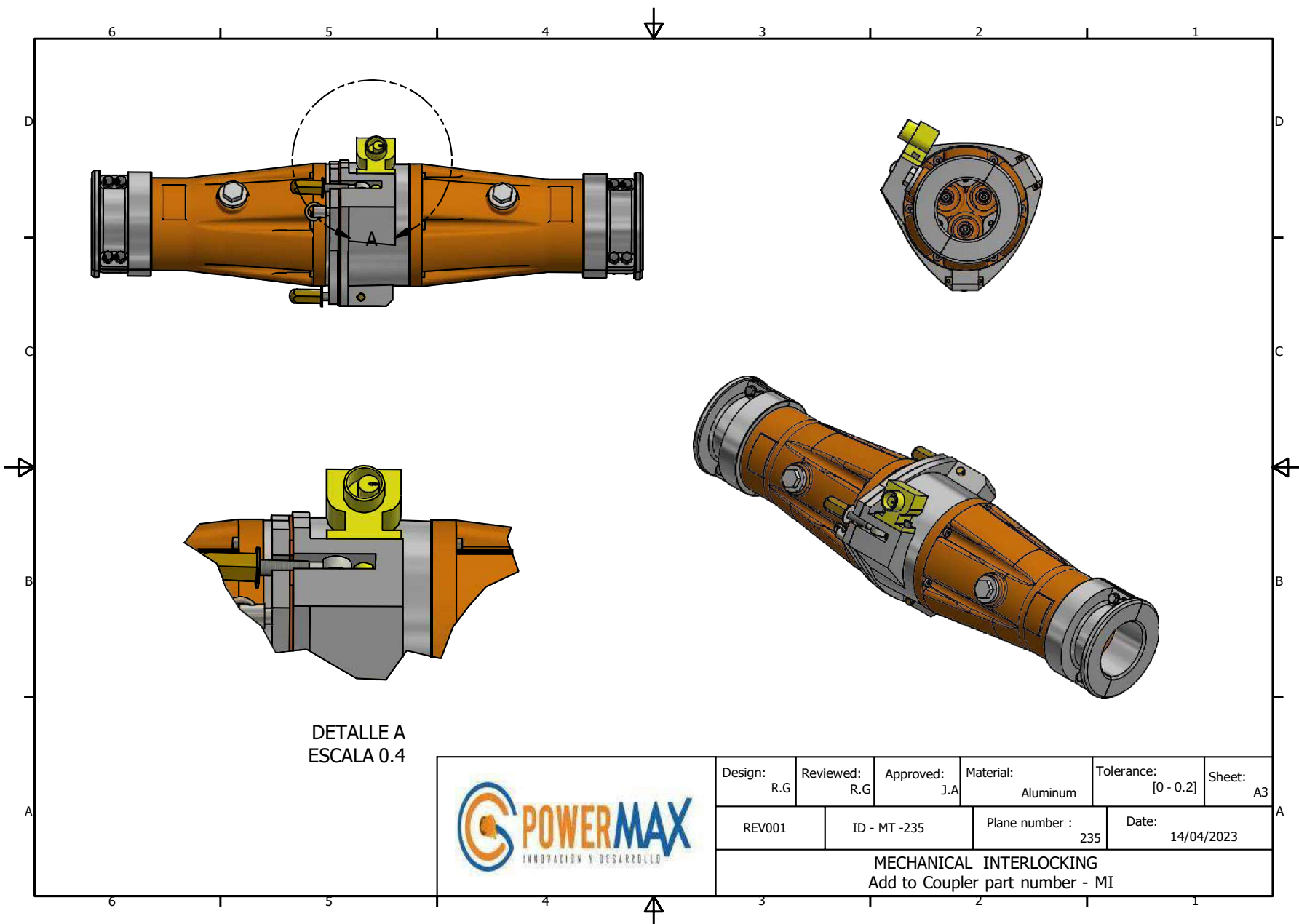


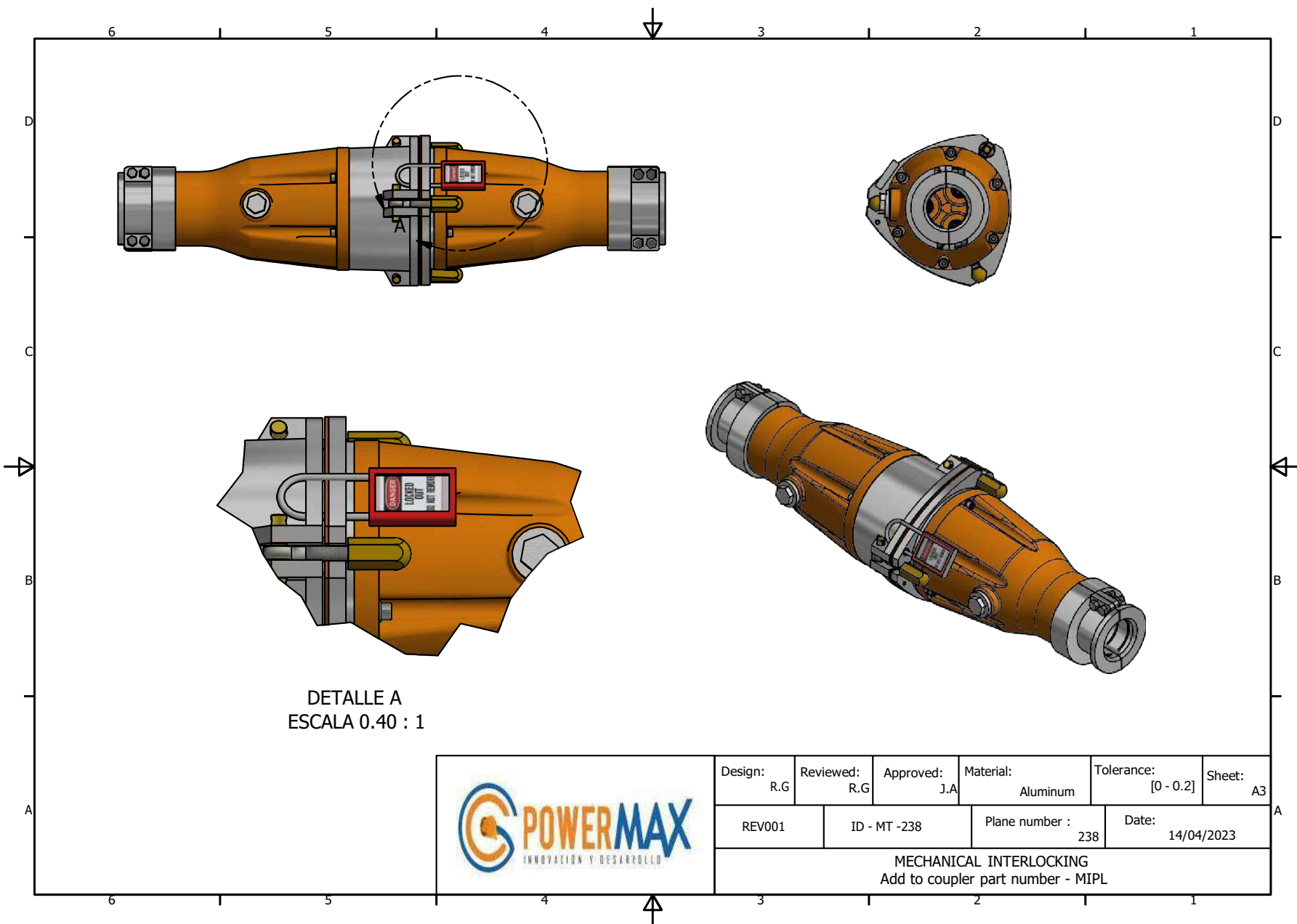


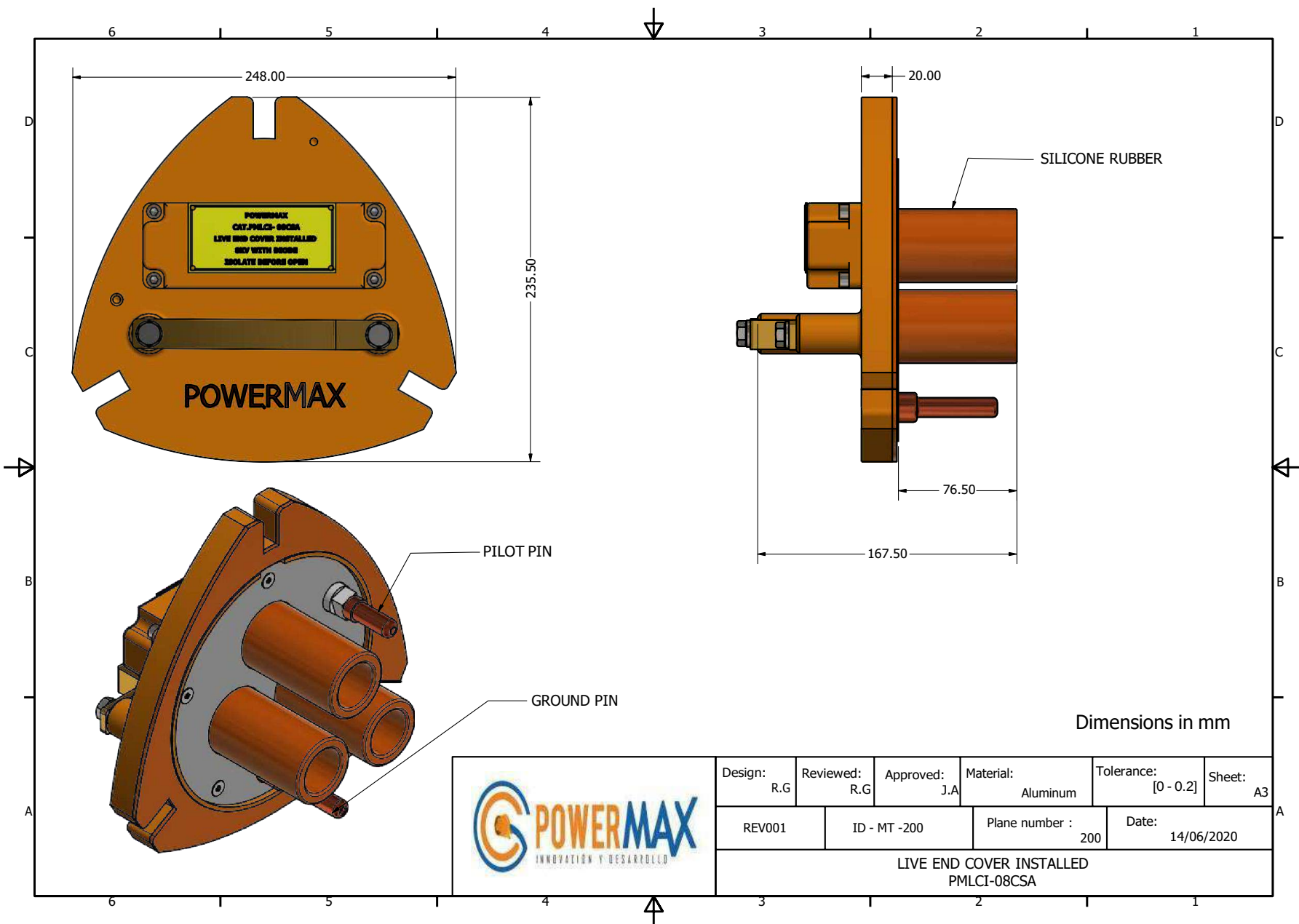


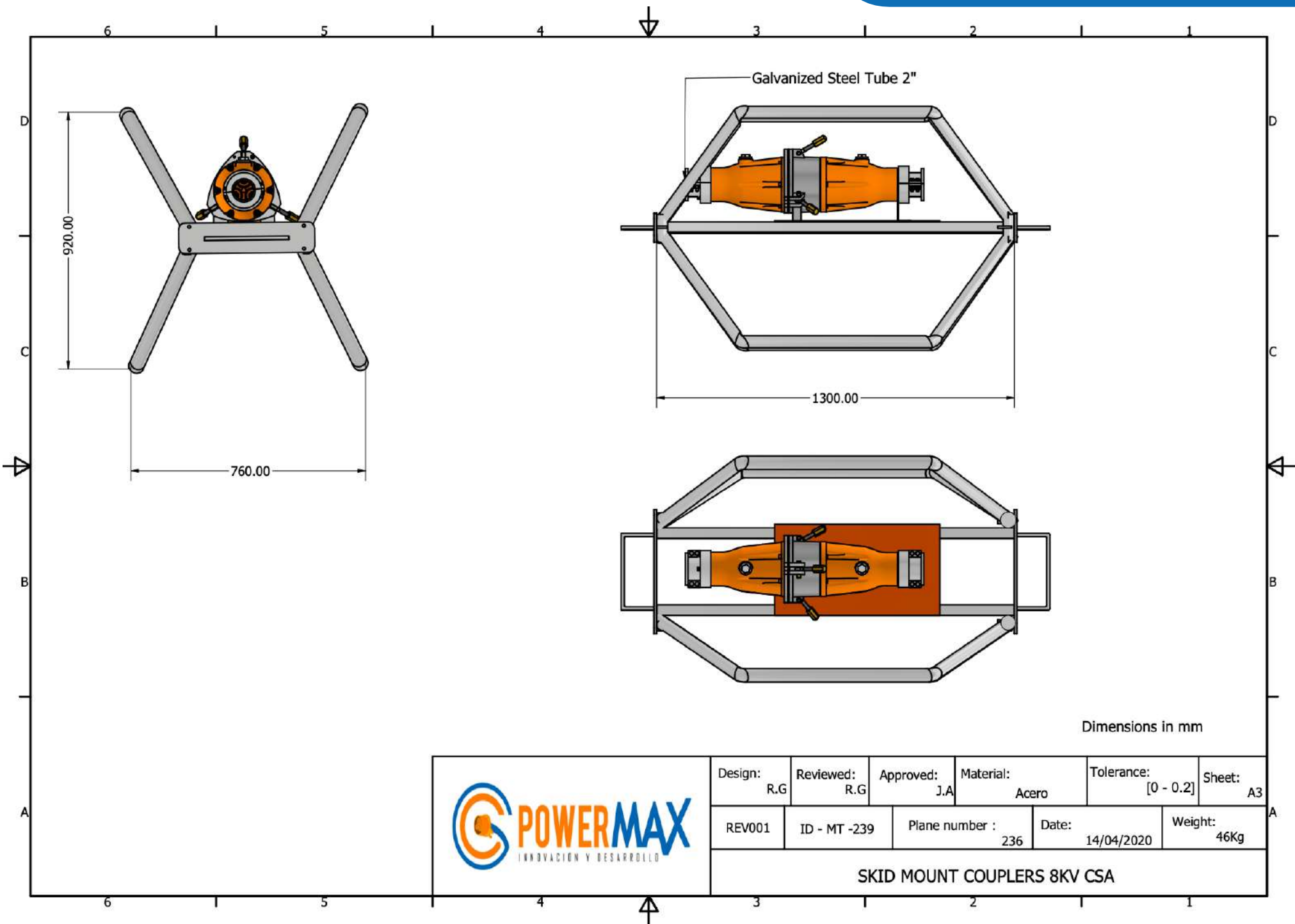


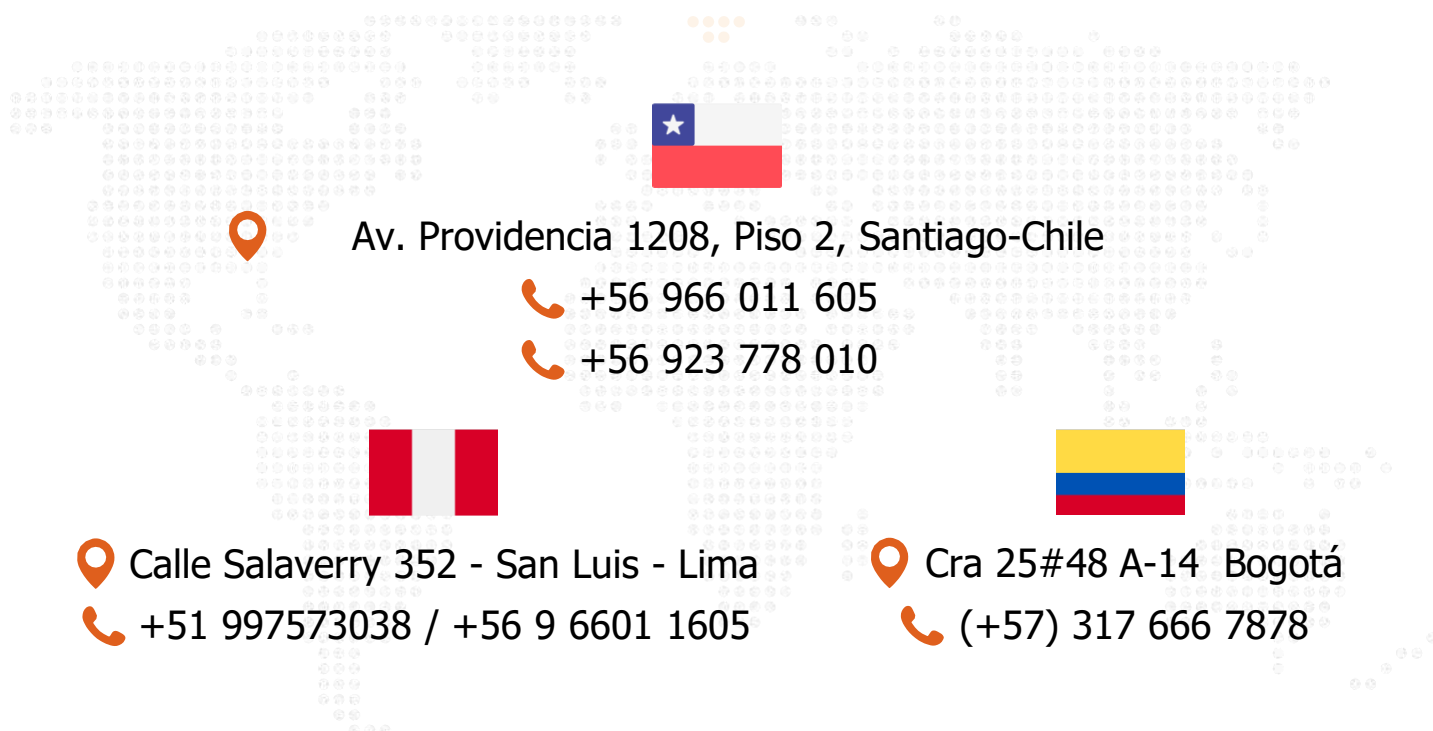












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