

# TYPE APPROVAL CERTIFICATE

Certificate no.: **TAE00003JH** Revision No:

This is to certify:

that the Cable Gland

with type designation(s)

SYNTEC MS, PROGRÉSS MS, MS L, MS FKN, MS FK, MS MULTI, MS T, MS W90, MS Adapter, MS Kombi, MS HT, MS KB, MS T+KB, S2, S2 HT, S4 HT, MS EMV, MS EMV Rapid, MS EMV FKN, MS Adapter EMV, MS Kombi EMV, EMV Serie 85, Serie 51/52, PROGRESS EMV easyConnect, PROGRESS EMV powerConnect, Progress AgreenO, EMV, easyCONNECT

issued to

## **AGRO AG**

Hunzenschwil, AG, Switzerland

is found to comply with

DNV rules for classification - Ships, offshore units, and high speed and light craft

### **Application:**

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV. Metallic cable glands for non-hazardous areas.

Туре	Material	Suitable for open deck	Suitable for Hazardous areas
SYNTEC MS	Metallic	Yes	No
PROGRESS MS, MS L, MS FKN, MS FK, MS MULTI, MS T, MS W90, MS Adapter, MS Kombi, MS HT, MS KB, MS T+KB, S2, S2 HT, S4 HT, MS EMV, MS EMV Rapid, MS EMV FKN, MS Adapter EMV, MS Kombi EMV, EMV Serie 85	Metallic	Yes	No
Serie 51/52	Metallic	Yes	No
PROGRESS EMV easyConnect	Metallic	Yes	No
PROGRESS EMV powerConnect	Metallic	Yes	No
Progress AgreenO, EMV, easyCONNECT	Metallic	Yes	No

Issued at Høvik on 2024-10-22

for **DNV** 

This Certificate is valid until 2029-09-22.

DNV local unit: Augsburg

Approval Engineer: Uwe Supke

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.



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# **Product description**

Type designation	SYNTEC MS Cable glands SYNTEC nickel-plated brass with lamellar technology Long and short entry thread metric One piece sealing ring, not overall length insulated VDE Approval No.: 40027944 Appendix No.: 200A & 201A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	with cable anchorage type A M12-M63
anchorage – type A, B , impact category)	Impact category 1-4
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M12-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS
	Cable glands PROGRESS nickel-plated brass.
	Short entry thread metric
	One-piece sealing insert overall length insulated
	VDE Approval No.: 40019686
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	without cable anchorage
anchorage – type A, B , impact category)	M6-M8
	with cable anchorage type A
	M8-M75
	Impact category 4 up to 8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M6-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS
	Cable glands PROGRESS nickel-plated brass
	Short entry thread metric
	Two-piece sealing insert overall length insulated
	VDE Approval No.: 40019686
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	with cable anchorage type A
anchorage – type A, B , impact category)	M16-M75
	Impact category 5-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	6.4 Resistance to external influences
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M75
Seal material	TPE / NBR

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Type designation	PROGRESS MS Cable glands PROGRESS nickel-plated brass Short entry thread metric One-piece sealing insert not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	Without cable anchorage: M6-M8 with cable anchorage type A: M8-M75 Impact category 4-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M6-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS Cable glands PROGRESS nickel-plated brass Short entry thread metric Two-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B, impact category)	with cable anchorage type A: M16-M75
anchorage – type A, B , impact category)	Impact category 5-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	N/A
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS Cable glands PROGRESS nickel-plated brass Long entry thread metric One-piece sealing insert overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	Without cable anchorage: M6-M8 with cable anchorage type A: M8-M75 Impact category 4-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M6-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS
	Cable glands PROGRESS nickel-plated brass

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	Long entry thread metric
	Two-piece sealing insert overall length insulated
	VDE Approval No.: 40019686
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	with cable anchorage type A:
anchorage – type A, B , impact category)	M16-M75
	Impact category 5-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS Cable glands PROGRESS nickel-plated brass Long entry thread metric One-piece sealing insert not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	Without cable anchorage M6-12 With cable anchorage type A: M12-M75 Impact category 4-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M6-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS Cable glands PROGRESS nickel-plated brass Long entry thread metric Two-piece sealing insert not overall length insulated VDE Approval No.: 40019686
6.1 Material (Motellie, Non motellie, composite)	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite) 6.2 Mechanical properties (without or with cable anchorage – type A, B, impact category)	Nickel plated brass CuZn39Pb3  With cable anchorage type A: M16-M75 Impact category 5-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS L Cable glands PROGRESS nickel-plated brass with special entry thread.
	Special long entry thread metric
	Two-piece sealing insert, not overall length insulated

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	VDE Approval No.: 40019686
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M40
	Impact category 5-7
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M40
Seal material	TPE / NBR

Type designation	PROGRESS MS FKN Cable glands PROGRESS nickel-plated brass for special applications With antikink spring, short entry thread metric One-piece sealing insert overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	Without cable anchorage M8 With cable anchorage type A: M8-M32 Impact category 4-6
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M8-M32
Seal material	TPE / NBR

Type designation	PROGRESS MS FKN Cable glands PROGRESS nickel-plated brass for special applications With antikink spring, short entry thread metric Two-piece sealing insert overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M32
	Impact category 5-6
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M32
Seal material	TPE / NBR

Type designation	PROGRESS MS FK
	Cable glands PROGRESS nickel-plated brass for special
	cables
	For flat cables, short entry thread metric
	One-piece sealing, not insert overall length insulated
	VDE Approval No.: 40019686
	Appendix No.: 200

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6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M63
	Impact category 5-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS FK Cable glands PROGRESS nickel-plated brass for special cables For flat cables, long entry thread metric One-piece sealing, not insert overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type A: M16-M63 Impact category 5-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS Multi Cable glands PROGRESS nickel-plated brass for installation of multiple cables short entry thread metric One-piece sealing not insert overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M32
	Impact category 5-6
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M32
Seal material	TPE / NBR

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Type designation	PROGRESS MS Multi
	Cable glands PROGRESS nickel-plated brass for installation
	of multiple cables
	· ·
	long entry thread metric
	One-piece sealing, not insert overall length insulated
	VDE Approval No.: 40019686
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3

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6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type A: M16-M32
6.3 Electrical properties (with electric continuity or	Impact category 5-6 According to EN 62444
insulating characteristics)  6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M32
Seal material	TPF / NBR

Type designation	PROGRESS MS T Cable glands PROGRESS nickel-plated brass for special applications short entry thread metric Two-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type A: M16-M40 Impact category 5-7
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M40
Seal material	TPE / NBR

Type designation	PROGRESS MS T Cable glands PROGRESS nickel-plated brass for special applications long entry thread metric Two-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M40
	Impact category 5-7
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M40
Seal material	TPE / NBR

Type designation	PROGRESS MS W90 Cable glands PROGRESS nickel-plated brass elbow 90° short entry thread metric One-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type A: M12 Impact category 4

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6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M12
Seal material	TPE

Type designation	PROGRESS MS W90 Cable glands PROGRESS nickel-plated brass elbow 90° short entry thread metric Two-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M40
	Impact category 5-7
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M40
Seal material	TPE

Type designation	PROGRESS MS W90
	Cable glands PROGRESS nickel-plated brass elbow 90°
	long entry thread metric
	One-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019686
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M12
	Impact category 4
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M12
Seal material	TPE

Type designation	PROGRESS MS W90 Cable glands PROGRESS nickel-plated brass elbow 90° long entry thread metric Two-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type A: M16-M40 Impact category 5-7
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M40

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Seal material	TPE
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Type designation	PROGRESS MS W90 Cable glands PROGRESS nickel-plated brass elbow 90° with locknut long entry thread metric One-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M12
	Impact category 4
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M12
Seal material	TPE / NBR

Type designation	PROGRESS MS W90
	Cable glands PROGRESS nickel-plated brass elbow 90° with
	locknut
	long entry thread metric
	Two-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019686
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M40
	Impact category 5-7
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M40
Seal material	TPE / NBR

Type designation	PROGRESS MS Adapter Adapter PROGRESS nickel-plated brass with integrated cable gland long entry thread metric one-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M10-M12
	Impact category 4
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M10-M12
Seal material	TPE / NBR

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Type designation	PROGRESS MS Adapter Adapter PROGRESS nickel-plated brass with integrated cable gland long entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M63
	Impact category 5-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS Kombi Combination conduit glands PROGRESS nickel-plated brass with integrated cable gland short entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M12-M63
	Impact category 4-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M12-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS Kombi Combination conduit glands PROGRESS nickel-plated brass with integrated cable gland long entry thread metric two-piece sealing insert overall length insulated VDE Approval No.: 40019686 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M12-M63
	Impact category 4-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M12-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS HT
	Cable glands PROGRESS nickel-plated brass for high
	temperature applications

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6.1 Material (Metallic, Non-metallic, composite) 6.2 Mechanical properties (without or with cable anchorage – type A, B, impact category)	short entry thread metric one-piece sealing insert, not overall length insulated VDE Approval No.: 40019688 Appendix No.: 200A Nickel plated brass CuZn39Pb3 Without cable anchorage: M6-M8 With cable anchorage type A: M8-M63 Impact category 4-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +200°C
Gland sizes [mm]	M6-M63
Seal material	FPM

Type designation	PROGRESS MS HT Cable glands PROGRESS nickel-plated brass for high temperature applications short entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40019688 Appendix No.: 201A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type A: M16-M63
	Impact category 5-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +200°C
Gland sizes [mm]	M16-M63
Seal material	FPM

Type designation	PROGRESS MS HT
	Cable glands PROGRESS nickel-plated brass for high
	temperature applications
	long entry thread metric
	one-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019688
	Appendix No.: 202A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	Without cable anchorage:
anchorage – type A, B , impact category)	M6-M8
	With cable anchorage type A:
	M8-M63
	Impact category 4-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +200°C
Gland sizes [mm]	M6-M63
Seal material	FPM

Type designation	PROGRESS MS HT
	Cable glands PROGRESS nickel-plated brass for high

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	temperature applications long entry thread metric two-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019688 Appendix No.: 203A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B, impact category)	With cable anchorage type A: M16-M63
anchorage – type A, B , impact category)	Impact category 5-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +200°C
Gland sizes [mm]	M16-M63
Seal material	FPM

Type designation	PROGRESS MS KB Cable glands PROGRESS nickel plated brass for special applications. With clamps short entry thread metric one-piece sealing insert, not overall length insulated VDE Approval No.: 40019690 Appendix No.: 200A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type B:
anchorage – type A, B , impact category)	M10-M12
	Impact category 4
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M10-M12
Seal material	TPE / NBR

Type designation	PROGRESS MS KB Cable glands PROGRESS nickel plated brass for special applications. With clamps short entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40019690 Appendix No.: 201A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type B: M16-M75 Impact category 5-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS KB Cable glands PROGRESS nickel plated brass for special
	applications. With clamps long entry thread metric
	one-piece sealing insert, not overall length insulated

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	VDE Approval No.: 40019690
	Appendix No.: 202A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type B:
anchorage – type A, B , impact category)	M10-M12
	Impact category 4
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M10-M12
Seal material	TPE / NBR

Type designation	PROGRESS MS KB Cable glands PROGRESS nickel plated brass for special applications. With clamps long entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40019690 Appendix No.: 203A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type B:
anchorage – type A, B , impact category)	M16-M75
	Impact category 5-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M75
Seal material	TPE / NBR

Type designation	PROGRESS MS T+KB Cable glands PROGRESS nickel plated brass for special applications. With trumpet and clamps short entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40019690
	Appendix No.: 204A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type B:
anchorage – type A, B , impact category)	M16-M40
	Impact category 5-7
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M40
Seal material	TPE / NBR

Type designation	PROGRESS MS T+KB
	Cable glands PROGRESS nickel plated brass for special
	applications With trumpet and clamps
	long entry thread metric
	two-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019690
	Appendix No.: 205A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3

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6.2 Mechanical properties (without or with cable	With cable anchorage type B:
anchorage – type A, B , impact category)	M16-M40
	Impact category 5-7
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M40
Seal material	TPF / NBR

Type designation	PROGRESS S2
	Cable glands PROGRESS stainless steel A2
	long entry thread metric
	one-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019693
	Appendix No.: 200A
6.1 Material (Metallic, Non-metallic, composite)	CrNi Steel A2
6.2 Mechanical properties (without or with cable	Without cable anchorage:
anchorage – type A, B , impact category)	M8
	With cable anchorage type A:
	M8-M63
	Impact category 5-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M8-M63
Seal material	TPE / NBR

Type designation	PROGRESS S2 Cable glands PROGRESS stainless steel A2 long entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40019693
	Appendix No.: 201A
6.1 Material (Metallic, Non-metallic, composite)	CrNi Steel A2
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M63
	Impact category 8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M63
Seal material	TPE / NBR

Type designation	PROGRESS S2 HT
	Cable glands PROGRESS stainless steel A2, for high
	temperatures
	long entry thread metric
	one-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019693
	Appendix No.: 202A
6.1 Material (Metallic, Non-metallic, composite)	CrNi Steel A2
6.2 Mechanical properties (without or with cable	Without cable anchorage:
anchorage – type A, B , impact category)	M8
	With cable anchorage type A:

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	M8-M63
	Impact category 5-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +200°C
Gland sizes [mm]	M8-M63
Seal material	FPM

Type designation	PROGRESS S2 HT Cable glands PROGRESS stainless steel A2, for high temperatures long entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40019693 Appendix No.: 203A
6.1 Material (Metallic, Non-metallic, composite)	CrNi Steel A2
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type A: M16-M63 Impact category 8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +200°C
Gland sizes [mm]	M16-M63
Seal material	FPM

Type designation	PROGRESS S4 HT Cable glands PROGRESS stainless and acid-resistant steel A4, for high temperatures long entry thread metric one-piece sealing insert, not overall length insulated VDE Approval No.: 40019693 Appendix No.: 204A
6.1 Material (Metallic, Non-metallic, composite)	CrNiMo Steel A4
6.2 Mechanical properties (without or with cable	Without cable anchorage:
anchorage – type A, B , impact category)	M8
	With cable anchorage type A:
	M8-M63
	Impact category 5-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +200°C
Gland sizes [mm]	M8-M63
Seal material	FPM

Type designation	PROGRESS S4 HT Cable glands PROGRESS stainless and acid-resistant steel
	A4, for high temperatures
	long entry thread metric
	two-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019693
	Appendix No.: 205A
6.1 Material (Metallic, Non-metallic, composite)	CrNiMo Steel A4

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6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M16-M63
	Impact category 8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +200°C
Gland sizes [mm]	M16-M63
Seal material	FPM

Type designation	PROGRESS MS EMV Cable glands PROGRESS EMC nickel plated brass with contact sleeve short entry thread metric one-piece sealing insert, not overall length insulated VDE Approval No.: 40019694
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	Without cable anchorage:
anchorage – type A, B , impact category)	M8
	With cable anchorage type A:
	M8-M63
	Impact category 4-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M8-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS EMV Cable glands PROGRESS EMC nickel plated brass with contact sleeve long entry thread metric one-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019694 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	Without cable anchorage: M8 With cable anchorage type A: M8-M63 Impact category 4-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M8-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS EMV Rapid Cable glands PROGRESS EMC Rapid nickel plated brass with contact disc long entry thread metric one-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019694
	Appendix No.: 200

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6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M12-M32
	Impact category 4-6
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M12-M32
Seal material	TPE / NBR

Type designation	PROGRESS MS EMV FKN
	Cable glands PROGRESS EMC nickel plated brass with
	antikink spring
	entry thread metric
	one-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019694
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	Without cable anchorage:
anchorage – type A, B , impact category)	M8
	With cable anchorage type A:
	M8-M32
	Impact category 4-6
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M8-M32
Seal material	TPE / NBR

Type designation	PROGRESS MS Adapter
	Adapter PROGRESS nickel plated brass with intefrated EMV
	cable gland
	long entry thread metric
	one-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019694
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M10-M63
	Impact category 4-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M10-M63
Seal material	TPE / NBR

Type designation	PROGRESS MS Kombi EMV
	Combination conduit glands with integrated cable gland
	PROGRESS EMC
	long entry thread metric
	one-piece sealing insert, not overall length insulated
	VDE Approval No.: 40019694
	Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3

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6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M12-M63
	Impact category 4-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M12-M63
Seal material	TPE / NBR

Type designation	PROGRESS EMV Serie 85 Cable glands PROGRESS EMC Series 85 nickel plated brass with collet chuck entry thread metric two-piece sealing insert, not overall length insulated VDE Approval No.: 40024694 Appendix No.: 200
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable anchorage – type A, B , impact category)	With cable anchorage type A: M16-M63 Impact category 5-8
6.3 Electrical properties (with electric continuity or insulating characteristics)	According to EN 62444
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30' IP69 K
6.4.2 Temperature range if different from -20C to +65C	-40°C up to +100°C
Gland sizes [mm]	M16-M63
Seal material	TPE / NBR

Type designation	Serie 51/52 Cable glands PROGRESS nickel plated brass for special applications Antikink nozzle in EPDM short entry thread metric one-piece sealing insert, not overall length insulated VDE Approval No.: 40019695 Appendix No.: 200A
6.1 Material (Metallic, Non-metallic, composite)	Nickel plated brass CuZn39Pb3
6.2 Mechanical properties (without or with cable	Without cable anchorage:
anchorage – type A, B , impact category)	M8
	With cable anchorage type A:
	M10-M25
	Impact category 4-8
6.3 Electrical properties (with electric continuity or	According to EN 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68 1 bar 30'
6.4.2 Temperature range if different from -20C to +65C	-20°C up to +100°C
Gland sizes [mm]	M8-M25
Seal material	NBR / EPDM

Type designation	PROGRESS EMV easyConnect
Type designation	Cable glands PROGRESS EMC nickel plated brass with contact spring
	short and long entry thread metric
	two-piece sealing insert, not overall length insulated
	VDE Approval No.: 40036383
	Appendix No.: 200A
6.1 Material (Metallic, Non-metallic, composite)	Body: Nickel plated brass CuZn39Pb3

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	Contact Spring: steel 1.4310
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B , impact category)	M12-M32
	Impact category 3
6.3 Electrical properties (with electric continuity or	According to IEC 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68, 2 up to 30 bar during 30'
	IP69K
6.4.2 Temperature range if different from -20C to +65C	-60°C up to +100°C
Gland sizes [mm]	M12-M32
Seal material	TPE / NBR

Type designation	PROGRESS EMV powerConnect
	Cable glands PROGRESS EMC nickel plated brass with
	contact spring
	short and long entry thread metric
	two-piece sealing insert, not overall length insulated
	VDE Approval No.: 40036383
	Appendix No.: 200B
6.1 Material (Metallic, Non-metallic, composite)	Body: Nickel plated brass CuZn39Pb3
	Contact Spring: steel 1.4310
6.2 Mechanical properties (without or with cable	With cable anchorage type A:
anchorage – type A, B, impact category)	M16-M85
amonorage type / type / type to anteger //	Impact category 3
6.3 Electrical properties (with electric continuity or	According to IEC 62444
insulating characteristics)	
6.4 Resistance to external influences	
6.4.1 IP class	IP68, 2 up to 10 bar
	IP69
6.4.2 Temperature range if different from -20C to +65C	-60°C up to +100°C
Gland sizes [mm]	M16-M85
Seal material	TPE / NBR

### Application/Limitation

For use in non-hazardous areas, only.

### Type Approval documentation

Test reports / certificates:

VDE Certificate no. 40027944, appendix 200A, 201A.

VDE Certificate no. 40019686, appendix 200A.

VDE Certificate no. 40019688, appendix 200A, 201A, 202A, 203A.

VDE Certificate no. 40019690, appendix 200A, 201A, 202A, 203A, 204A, 205A. VDE Certificate no. 40019693, appendix 200A, 201A, 202A, 203A, 204A, 205A.

VDE Certificate no. 40019694, appendix 200A, VDE Certificate no. 40019695, appendix 200A.

VDE Certificate no. 40036383, appendix 200A, 200B.

Data sheets / drawings:

Relevant pages from Agro's product catalogue.

### **Tests carried out**

Type tests in accordance with EN 62444 carried out by VDE. Refer to product description for each cable gland type for certificate number.

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# **Marking of product**

Agro - type designation.

In addition the thread size on the type Syntec MS.

The Progress S2 type is market with 1 groove for A2-steel and 2 grooves for A4-steel.

#### Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the periodical assessment are:

- Inspection of factory samples, selected at random from the production line (where practicable)
- Results from production sample tests (PST) and routine tests (RT) to be checked (if not available tests
  according to PST and RT to be carried out)
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

**END OF CERTIFICATE** 

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