

証明書の見方について

株式会社タカチ電機工業

- ・ AGHシリーズは当社がAGRO社より輸入販売している製品になります。
- ・ 当社ではAGHシリーズになりますが、AGRO社では「Progress MS HT」になります。
- ・ 添付の書類はAGRO社から入手し、IP68を証明しているものになります。

AGHシリーズに相当する製品のAGRO社品名

DNV-GL
Certificate No:
TAE00003JH

TYPE APPROVAL CERTIFICATE

This is to certify:
That the Cable Gland

with type designation(s)
SYNTEC MS, 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, Serie 51/52, PROGRESS EMV easyConnect, PROGRESS EMV powerConnect

Issued to
AGRO AG
Hunzenschwil, AG, Switzerland

is found to comply with
DNV GL 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 GL.
Metallic cable glands for non-hazardous areas.

Type	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

Issued at **Hamburg** on **2019-09-23**

This Certificate is valid until **2024-09-22**.
DNV GL local station: **Augsburg**

Approval Engineer: **Uwe Supke**

for **DNV GL**
Digitally Signed By: Schaarmann, Arne
Location: DNV GL SE Hamburg, Germany
Signing Date: 2019-09-24

Arne Schaarmann
Head of Section

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.

Form code: TA 251 Revision: 2016-12 www.dnvgl.com Page 1 of 33
© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)

SYNTEC MS, 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, Serie 51/52, PROGRESS EMV easyConnect, PROGRESS EMV powerConnect

Issued to

AGRO AG

Hunzenschwil, AG, Switzerland

is found to comply with

DNV GL 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 GL.

Metallic cable glands for non-hazardous areas.

Type	Material	Suitable for open deck	Suitable for Hazardous areas
SYNTEC MS 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
	Metallic	Yes	No
Serie 51/52 PROGRESS EMV easyConnect PROGRESS EMV powerConnect	Metallic	Yes	No
	Metallic	Yes	No
	Metallic	Yes	No

Issued at **Hamburg** on **2019-09-23**

This Certificate is valid until **2024-09-22**.

DNV GL local station: **Augsburg**

Approval Engineer: **Uwe Supke**



for **DNV GL**

Digitally Signed By: Schaarmann, Arne
Location: DNV GL SE Hamburg, Germany
Signing Date: 2019-09-24

Arne Schaarmann
Head of Section

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.



Job Id: **262.1-009078-3**
 Certificate No: **TAE00003JH**

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 <u>AGHシリーズ</u>	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 anchorage - type A, B , impact category)	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 保護等級	IP68 1 bar 30' IP68 (水深10m相当に30分の耐水)
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 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	With cable anchorage type A: M16-M63