

TYPE APPROVAL CERTIFICATE

**This is to certify:
That the Cable Gland**

with type designation(s)
TEC

Issued to
**Schlemmer GmbH
Poing, Germany**

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application :

**Cable glands for Non-hazardous areas.
The manufacturer's installation description to be followed.**

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2015-01-15**

DNV GL local station: **Essen**

Approval Engineer: **Ivar Bull**

for **DNV GL**

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**Marit Laumann
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.

Certificate No: **E-13897**
 File No: **828.90**
 Job Id: **262.1-018253-1**

Name and place of manufacturer

Schlemmer Italia GmbH
 Rienzfeldstraße 21
 39031 Bruneck (BZ),
 ITALY

Product description

Cable gland of plastic material. Types: TEC PG, TEC PG reduced, TEC metric, TEC metric reduced, TEC metric long thread, TEC metric reduced long thread, TEC NTP and TEC NTP reduced.

Design Specification:	DIN EN 50262
Classification:	Non Hazardous
Compliance Code:	UL514B
Continuous Operating Temp. Range:	-25°C to +100°C
Ingress Protection:	IP68 to 5 bar,
Gland Material:	Plastic material (PA6)
Seal Material:	Neoprene
Cable Type:	Armoured

Overview TEC PG

	EDV - Nr. grey RAL 7001	EDV - Nr. black RAL 9005	EDV - Nr. lightgrey RAL 7035	clamping range min / max
PG 7	5308 070	5308 507	5308 707	2,5 / 6,5
PG 9	5308 097	5308 509	5308 709	2,5 / 8,0
PG 11	5308 119	5308 511	5308 711	3,5 / 10,0
PG 13,5	5308 135	5308 513	5308 713	5,0 / 12,0
PG 16	5308 160	5308 516	5308 716	7,0 / 14,0
PG 21	5308 216	5308 521	5308 721	9,0 / 18,0
PG 29	5308 291	5308 529	5308 729	14,0 / 25,0
PG 36	5308 364	5308 536	5308 736	18,0 / 32,0
PG 42	5308 428	5308 537	5308 737	24,0 / 38,5
PG 48	5308 484	5308 538	5308738	35,0 / 48,0

Overview TEC PG reduced

	EDV - Nr. grey RAL 7001	EDV - Nr. black RAL 9005	EDV - Nr. lightgrey RAL 7035	clamping range min / max
PG 7	5309 007	5309 207	5309 107	1,5 / 5,0
PG 9	5309 009	5309 209	5309 109	1,5 / 6,0
PG 11	5309 011	5309 211	5309 111	2,0 / 7,0
PG 13,5	5309 013	5309 213	5309 113	3,0 / 9,0
PG 16	5309 016	5309 216	5309 116	5,0 / 12,0
PG 21	5309 216	5309 216	5309 116	7,0 / 16,0
PG 29	5309 029	5309 229	5309 129	11,0 / 21,0
PG 36	5309 036	5309 236	5309 136	13,0 / 26,0
PG 42	5309 042	5309 242	5309 152	17,0 / 31,0
PG 48	5309 048	5309 248	5309 148	26,0 / 39,0

Overview TEC metric

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	EDV - Nr. grey RAL 7001	EDV - Nr. black RAL 9005	EDV - Nr. lightgrey RAL 7035	clamping range min / max
M 12	5308930	5308940	5308950	2,5 / 6,5
M 16 / 9	5308938	5308948	5308958	2,5 / 8,0
M 16 / 11	5308931	5308941	5308951	3,5 / 10,0
M 20 / 13	5308939	5308949	5308959	5,0 / 12,0
M 20 / 16	5308932	5308942	5308952	7,0 / 14,0
M 25 / 16	5308961	5308962	5308960	7,0 / 14,0
M 25 / 21	5308933	5308943	5308953	9,0 / 18,0
M 32	5308934	5308944	5308954	14,0 / 25,0
M 40	5308935	5308945	5308955	18,0 / 32,0
M 50	5308936	5308946	5308956	24,0 / 38,5
M 63	5308937	5308947	5308957	35,0 / 48,0

Overview TEC metric reduced

	EDV - Nr. grey RAL 7001	EDV - Nr. black RAL 9005	EDV - Nr. lightgrey RAL 7035	clamping range min / max
M 12	5309512	5309712	5309612	1,5 / 5,0
M 16 / 9	5309515	5309715	5309615	1,5 / 6,0
M 16 / 11	5309516	5309716	5309616	2,0 / 7,0
M 20 / 13	5309519	5309719	5309619	3,0 / 9,0
M 20 / 16	5309520	5309720	5309620	5,0 / 12,0
M 25 / 16	5309524	5309724	5309624	5,0 / 12,0
M 25 / 21	5309525	5309725	5609625	7,0 / 16,0
M 32	5309532	5309732	5309632	11,0 / 21,0
M 40	5309540	5309740	5309640	13,0 / 26,0
M 50	5309550	5309750	5309650	17,0 / 31,0
M 63	5309563	5309763	5309663	26,0 / 39,0

Overview TEC metric long thread

	EDV - Nr. grey RAL 7001	EDV - Nr. black RAL 9005	EDV - Nr. lightgrey RAL 7035	clamping range min / max
M 12	5307012	5307112	5307212	2,5 / 6,5
M16/09	5307 017	5307 117	5307 217	2,5 / 6,5
M 16 / 11	5307016	5307116	5307216	3,5 / 10,0
M20/13	5307 021	5307 121	5307 221	5,0 / 12
M 20 / 16	5307020	5307120	5307220	7,0 / 14,0
M 25 / 16	5307026	5307126	5307226	7,0 / 14,0
M 25 / 21	5307025	5307125	5307225	9,0 / 18,0
M 32	5307032	5307132	5307232	14,0 / 25,0
M 40	5307040	5307140	5307240	18,0 / 32,0
M 50	5307050	5307150	5307250	24,0 / 38,5
M 63	5307063	5307163	5307263	35,0 / 48,0

Overview TEC metric reduced long thread

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	EDV - Nr. grey RAL 7001	EDV - Nr. black RAL 9005	EDV - Nr. lightgrey RAL 7035	clamping range min / max
M 12	5307512	5307612	5307712	1,5 / 5,0
M16/09	5307 517	5307 617	5307 717	1,5 / 5,0
M 16 / 11	5307516	5307616	5307716	2,0 / 7,0
M20/13	5307 521	5307 621	5307 721	3,0 / 9,0
M 20 / 16	5307520	5307620	5307720	5,0 / 12,0
M25/16	5307 526	5307 626	5307 726	5,0 / 12,0
M 25 / 21	5307525	5307625	5307725	7,0 / 16,0
M 32	5307532	5307632	5307732	11,0 / 21,0
M 40	5307540	5307640	5307740	13,0 / 26,0
M 50	5307550	5307650	5307750	17,0 / 31,0
M 63	5307563	5307663	5307763	26,0 / 39,0

Overview TEC NPT

	EDV - Nr. grey RAL 7001	EDV - Nr. black RAL 9005	EDV - Nr. lightgrey RAL 7035	clamping range min / max
3/8" NPT	5308910	5308920	5308900	2,5 / 8,0
1/2" NPT	5308911	5308921	5308901	5,0 / 12,0
3/4" NPT	5308912	5308922	5308902	9,0 / 18,0
1" NPT	5308913	5308923	5308903	14,0 / 25,0

Overview TEC NPT reduced

	EDV - Nr. grey RAL 7001	EDV - Nr. black RAL 9005	EDV - Nr. lightgrey RAL 7035	clamping range min / max
3/8" NPT	5308914	5308924	5308904	1,5 / 6,0
1/2" NPT	5308915	5308925	5308905	3,0 / 9,0
3/4" NPT	5308916	5308926	5308906	7,0 / 16,0
1" NPT	5308917	5308927	5308907	11,0 / 21,0

Application/Limitation

Only for use in non -hazardous area

Type Approval documentation

Schlemmer datasheets dated 2000-08-10.

Schlemmer drawing no. S-tec-detail dated 2003-05-23.

VDE Testreports ref. nos. 19600-1492-0001 / 405W F31 / BY dated 2001-11-01, 22326-1492-0002 / 405KU dated 2001-09-19, 2232600-1492 / 12224 dated 2002-06-26 and 22326-1492-0002 / 32CC2

Tests carried out


Type test report in accordance with EN 50262 and UL File no E184471

Marking of product

Schlemmer - I - Type designation - Lot No (on packaging)

I = Schlemmer Italia GmbH

Periodical assessment



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

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Survey to be performed at least every second year.

END OF CERTIFICATE