

# Cable glands Ex e & Ex d & Ex nR & Ex ta

Series TE1FU for all types of armouring without lead sheath, stainless steel



- Ex d and Ex e cable gland for armoured cables with SWA, wire-braid and tape armouring made of steel and aluminium
- Prevention of cold flow
- Compensating displacement seal (CDS), flood seal with integral protection, controlled outer load retention seal
- Internationally certified in accordance with IECEx, ATEX and cCSAus, EMC-tested

## MY R. STAHL TE1FUA



The Series TE1FU metal Ex d and Ex e cable glands are suitable for all types of armoured cables, i.e. for SWA, wire-braid and tape armouring made of steel and aluminium. They have a multifunctional holder for the armouring and various seals. They are also designed to prevent cold flow and are EMC-tested. Their auxiliary functions and the sequential, three-stage installation offer increased safety and reduce the amount of time, costs and risks involved in installation.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table										
Thread standard		metric								
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC boot	Art. No.	Weight
20	M20	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	61.5 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	243495	230 g
20s	M20	6.1 ... 11.6 mm	9.5 ... 15.9 mm	24 mm	57.3 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	243494	150 g
20s/16	M20	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	57.3 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	243493	150 g
25	M25	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	74 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243497	340 g
25s	M25	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	74 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243496	340 g
32	M32	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	78.2 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	243498	550 g
40	M40	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	81.6 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	243499	790 g
50	M50	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	91.2 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	243501	1.37 kg
50s	M50	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	88.1 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	243500	1 kg
63	M63	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	90.3 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	243503	1.56 kg
63s	M63	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	90.5 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	243502	1.5 kg
75	M75	59.1 ... 67.9 mm	66.7 ... 78.4 mm	100 mm	110.8 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	246298	3.15 kg
75s	M75	52.8 ... 61.9 mm	59 ... 72 mm	90 mm	104.7 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	246297	2.45 kg
Thread standard		NPT								
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC boot	Art. No.	Weight
20	NPT1/2	6.5 ... 13.9 mm	12.5 ... 20.9 mm	24 mm	61.2 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246300	230 g
20s	NPT1/2	6.1 ... 11.6 mm	9.5 ... 15.9 mm	24 mm	57.3 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	251724	150 g
20s/16	NPT1/2	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	57.3 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	246299	150 g

## Selection Table

Thread standard		NPT								
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC boot	Art. No.	Weight
25	NPT3/4	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	74 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246301	340 g
25s	NPT3/4	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	74 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	251725	340 g
32	NPT1	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	78.2 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246302	550 g
40	NPT1-1/4	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	81.6 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246303	790 g
50	NPT2	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	91.2 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246305	1.37 kg
50s	NPT1-1/2	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	88.1 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246304	1 kg
63	NPT2-1/2	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	90.3 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	246307	1.56 kg
63s	NPT2	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	90.5 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	246306	1.5 kg
75	NPT3	59.1 ... 67.9 mm	66.7 ... 78.4 mm	100 mm	110.8 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	246309	3.15 kg
75s	NPT2-1/2	52.8 ... 61.9 mm	59 ... 72 mm	90 mm	104.7 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	246308	2.45 kg

Additional variants available with NPT thread type.  
Versions with country codes BRA, CHN and others available on request.

Grooved cone: For cables with wire-braid or tape armouring  
Smooth cone: For cables with wire armouring (SWA)

## Technical Data

### Explosion Protection

IECEX gas explosion protection	Ex db IIC Gb
IECEX gas explosion protection 2	Ex eb IIC Gb
IECEX dust explosion protection	Ex ta IIIC Da
IECEX firedamp protection	Ex db I Mb
IECEX firedamp protection 2	Ex eb I Mb
IECEX restricted breathing	Ex nR IIC Gc
ATEX gas explosion protection	⊕ II 2 G Ex db IIC Gb
ATEX gas explosion protection 2	⊕ II 2 G Ex eb IIC Gb
ATEX dust explosion protection	⊕ II 1 D Ex ta IIIC Da
ATEX firedamp protection	⊕ I M2 Ex db I Mb
ATEX firedamp protection 2	⊕ I M2 Ex eb I Mb
ATEX restricted breathing	⊕ II 3 G Ex nR IIC Gc

Notes  
The product certificates can be downloaded from the manufacturer's homepage ([www.cmp-products.com](http://www.cmp-products.com))

Ex version Ex e & Ex d & Ex nR & Ex ta

### Ambient Conditions

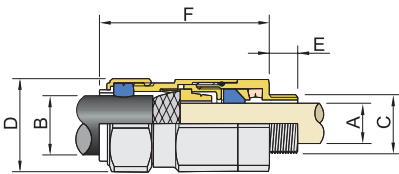
Ambient temperature -60 °C ... +130 °C

### Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	IP67 and IP68 mounting according to the specifications of the manufacturer, CMP. The specified degrees of protection are only fulfilled if CMP installation accessories are used.
Material	Stainless steel
Sealing material	SOLO LSF
Armouring type	All armouring
Construction type	BS 6121, IEC/EN 62444
Silicone-free	Yes
Impact strength	20 J

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

E10



A = Inner sheath    B = Outer sheath  
C = Thread size    D = Width across corners  
D = Width across flats    E = Thread length  
F = Protrusion length