

# Installation equipment and accessories



## Cable gland

With reduction sealing insert

8161/8-M16-0902-L Art. No. 239195



- For safely running cables into Ex e and Ex i areas
- Can be used in a temperature range from -60 to +75 °C, degree of protection IP68
- Available in Ex e and Ex i versions; the Ex i version is identified by a blue cap nut
- Cable dia. ranges from 1 to 48 mm
- Versions with multi-seal inserts

MY R. STAHL 8161B



R. STAHL's Series 8161/7 and 8161/8 cable glands can be used to safely run cables into Ex e enclosures. They are suitable for cable diameters between 1 and 48 mm. They are available for Ex e and Ex i electrical circuits – the Ex i version can be distinguished by its blue cap nut. A stopping plug for unused entries can be integrated into the entries.

## Technical Data

### Explosion Protection

Ex version	Ex i
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 14.0011 X
IECEX gas explosion protection	Ex eb IIC Gb
IECEX dust certificate	IECEX PTB 14.0011 X
IECEX dust explosion protection	Ex tb IIIC Db
ATEX gas certificate	PTB 14 ATEX 1008 X
ATEX gas explosion protection	⊕ II 2 G Ex eb IIC Gb
ATEX dust certificate	PTB 14 ATEX 1008 X
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC Db
Certificates	ATEX (PTB), Brazil (ULB), IECEX (PTB), Korea (KGS)
Declaration of conformity	ATEX (EUK)

### Ambient Conditions

Ambient temperature	-40 °C ... +75 °C
Use at the height of	< 2000 m

### Mechanical Data

Strain relief	No
Degree of protection (IP)	IP66
Degree of protection note	IP68 at 5 bar 30 min. (IP protection according to IEC/EN 60529)
Sealing material	EPDM profile seal
Sealing ring material	EPDM
Material	Polyamide, Glass fibre reinforced
Silicone-free	Yes
Self-extinguishing	Yes
Flame-retardant	Yes
Halogen-free	Yes
Surface resistance	≤ 10 <sup>13</sup> Ω

## Cable gland

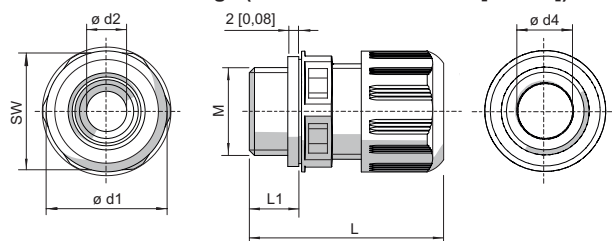
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### Mechanical Data

Clamping range	2 – 9 mm
Armouring type	Unarmoured cable types
Clamping range	2 ... 9 mm
Total length	37 to 43 mm
Dimension d1	22 mm
Dimension d2	10.3 mm
Dimension d4	9.3 mm
Width across corners	22 mm
Width across flats	20 mm
Thread size	M16
Thread length	15 mm
Thread pitch	1,5 mm
Impact strength (IEC 60079)	4 J
Impact strength	7 J
Impact strength note	Installation only in areas with a low risk of mechanical damage. If there is a higher risk, protect the cable gland from mechanical damage.
Colour	Blue
Lot size	50
Weight	9 g
Weight	0.02 lb

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



M = Thread size  
 SW = Width across flats  
 L1 = Thread length  
 L = Total length

### Cable glands without bend protection

Thread size	Width across flats	Total length	Total length (with long thread)	Thread length	Thread length (long thread)	Clamping range	Clamping range + reduction sealing insert	Di- men- sion d1	Di- men- sion d2	Di- men- sion d4
M12	16.00 mm	29 to 34 mm	35 to 40 mm	9 mm	15 mm	3 - 6 mm	1 - 6 mm	18 mm	7.3 mm	6.3 mm
M16	20.00 mm	31 to 37 mm	37 to 43 mm	9 mm	15 mm	5 - 9 mm	2 - 9 mm	22 mm	10.3 mm	9.3 mm
M20	24.00 mm	36 to 43 mm	41 to 48 mm	10 mm	15 mm	7 - 13 mm	4 - 13 mm	27 mm	13.3 mm	13.3 mm
M25	29.00 mm	38 to 46 mm	43 to 51 mm	10 mm	15 mm	10 - 17 mm	7 - 17 mm	32 mm	17.3 mm	17.3 mm
M32	36.00 mm	42 to 50 mm	45 to 53 mm	12 mm	15 mm	13 - 21 mm	9 - 21 mm	40 mm	21.3 mm	21.3 mm

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M40	46.00 mm	52 to 65 mm	58 to 71 mm	12 mm	18 mm	17 - 28 mm	12 - 28 mm	51 mm	28.3 mm	30 mm
M50	55.00 mm	59 to 72 mm	63 to 76 mm	14 mm	18 mm	23 - 35 mm	16 - 35 mm	61 mm	35.3 mm	40 mm
M63	68.00 mm	64 to 78 mm	67 to 81 mm	15 mm	18 mm	34 - 48 mm	28 - 48 mm	75 mm	48.3 mm	53 mm

## Accessories

### Jam nut, nickel-plated brass


Art. No.

	Material: Nickel-plated brass Lot size: 100 Thread size: M16	241519
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### Jam nut, plastic (-40 to +75 °C)

For mounting the cable entries in through holes

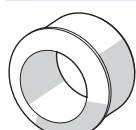
Art. No.

	Material: Polyamide Lot size: 100 Thread size: M16	239461
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### Reduction sealing insert (standard), EPDM (-40 to +75 °C)

For cable glands

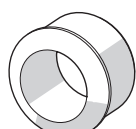
Art. No.

	Connection thread: M16 x 1.5 Batch size: 50 Clamping range: 2 to 6 mm	239445
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### Reduction sealing insert, silicone (-60 to +75 °C)

For low temperatures

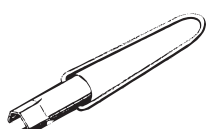
Art. No.

	Connection thread: M16 x 1.5 Lot size: 50 Cable dia. range: 2 to 6 mm	239453
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### Special key

For tightening cable glands and cap nuts

Art. No.

	Thread size: M16 Packaging unit: 1	114207
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### Plug (-60 to +75 °C; depending on the cable gland used)

For sealing unused cable glands

Material: Polyamide

Art. No.

	Diameter: 6 mm Lot size: 50	240046
	Diameter: 8 mm Lot size: 50	240048

## Spare Parts

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## Cable gland

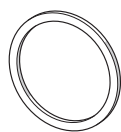
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### Flat seal (standard), EPDM (-40 to +75 °C)

#### Replacement seals for cable glands

Art. No.



For cable glands 8161/.-M16-09.. Lot size: 100  
Connection thread: M16

222370

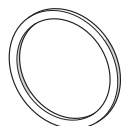
For cable glands 8161/.-M16-09... Lot size: 50  
Connection thread: M16

222363

### Silicone flat seal (-60 to +75 °C)

#### Replacement seals for low temperatures

Art. No.



For cable glands 8161/.-M16-09.. Lot size: 100  
Connection thread: M16

240248

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