

Installation equipment and accessories

STAHL

Cable gland

With reduction sealing insert

8161/8-M16-0902 Art. No. 239163



- 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
IECEEx gas certificate	IECEEx PTB 14.0011 X
IECEEx gas explosion protection	Ex eb IIC Gb
IECEEx dust certificate	IECEEx PTB 14.0011 X
IECEEx 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), China (NEPSI), IECEEx (PTB), Korea (KGS)
Declaration of conformity	ATEX (EUK), China (CCC)

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	$\leq 10^{13} \Omega$

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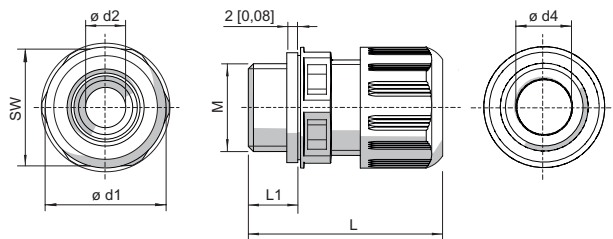
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Mechanical Data

Clamping range	2 – 9 mm
Armouring type	Unarmoured cable types
Clamping range	2 ... 9 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	9 mm
Thread pitch	1,5 mm
Impact strength (IEC 60079)	4 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
Total length	31 to 37 mm
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 + 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	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	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	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	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	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	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	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	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

Jam nut, plastic (-40 to +75 °C)

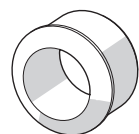
For mounting the cable entries in through holes

Art. No.Material: Polyamide Lot size: 100
Thread size: M16

239461

Reduction sealing insert (standard), EPDM (-40 to +75 °C)

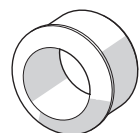
For cable glands

Art. No.Connection thread: M16 x 1.5 Batch size: 50
Clamping range: 2 to 6 mm

239445

Reduction sealing insert, silicone (-60 to +75 °C)

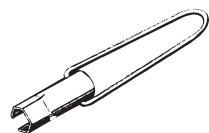
For low temperatures

Art. No.Connection thread: M16 x 1.5 Lot size: 50
Cable dia. range: 2 to 6 mm

239453

Special key

For tightening cable glands and cap nuts

Art. No.

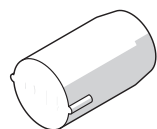
Thread size: M16 Packaging unit: 1

114207

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
Diameter: 8 mm Lot size: 50240046
240048

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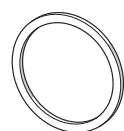
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Spare Parts

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

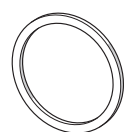
For cable glands 8161/..-M16-09... Lot size: 50
Connection thread: M16

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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