

IMQ 13 ATEX 029X
IECEX IMQ 14.0002X
GLANDS TYPES

Swivel Phoenix
Gland
type SV.H.



Stable Phoenix
Gland
type ST.H.



Seals



bimed
TEKNİK ALETLER SANAYİ VE TİCARET A.Ş.

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MARKINGS

BMD SV.H...	CE0722	II2GD Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 029X IECEx IMQ 14.0002X
BMD ST.H...	CE0722	II2GD Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEX IMQ 13.0006X

APPLICABLE STANDARDS

DIRECTIVE 2014/34/EU	EN/IEC 60079-0
EN/IEC 60529	EN/IEC 60079-7
	EN/IEC 60079-31

OPERATING TEMPERATURES

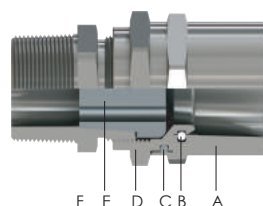
From -60°C to +80°C with Silicon sealing ring

Rev. 02

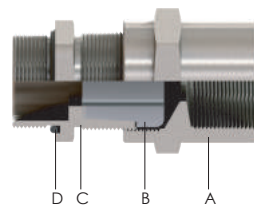
2 Mounting Instructions of the cable gland SV.H.

3 Mounting Instructions of the cable gland ST.H.

4 SAFETY INSTRUCTION

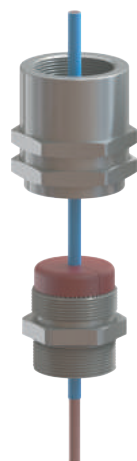


Nr.	Items
A	Swivel Female Body
B	Wire Ring
C	O-Ring
D	Swivel Cap
E	Seal
F	Body



Nr.	Items
A	Female Body
B	Seal
C	Body
D	O-Ring

- Mount the gland to the appropriate opening on the enclosure.
- For multi-hole seals; depending on the number of cables going to be used, disassembly that number of pins from the seal.
- If the cable has a connector at the end, using the split, seal is opened and cable is inserted either from the top of the seal or from the side of the seal.
- If the cable has a free end, the cable can be inserted from the top or under the seal. (opening the seal from the splits is not necessary)
- Sealing rings are assembled inside the body.
- Cap is assembled to the body.
- Cable is inserted inside the cable gland and tightened with sufficient torque value.
- Use locknut to tighten if the enclosure is non-threaded

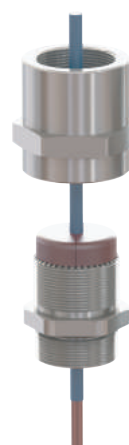


Swivel glands with single hole seal



Swivel glands with multi hole seal

- Mount the gland to the appropriate opening on the enclosure.
- For multi-hole seals; depending on the number of cables going to be used, disassembly that number of pins from the seal.
- If the cable has a connector at the end, using the split, seal is opened and cable is inserted either from the top of the seal or from the side of the seal.
- If the cable has a free end, the cable can be inserted from the top or under the seal. (opening the seal from the splits is not necessary)
- Sealing rings are assembled inside the body.
- Cap is assembled to the body.
- Cable is inserted inside the cable gland and tightened with sufficient torque value.
- Use locknut to tighten if the enclosure is non-threaded



Stable glands with single hole seal



Stable glands with multi hole seal

- Qualified personnel in compliance with the nation laws shall carry out the maintenance in accordance with EN/IEC 60079-17 and installation in accordance with EN/IEC 60079-14.
- Changes to products are not allowed.
- Only Bimed spare parts must be used.
- Everyday and extraordinary maintenance operations must be carried out only by qualified personnel after approval from expert technicians.
- The maintenance operations must be carried out only after the engine has been cut off from mains or from the related electrical appliance.
- The following instructions must be strictly followed in order to get a correct installation.
- The national safety rules and accident prevention regulations, must be strictly respected.
- In case of ambient temperature is below -30°C, austenitic steels must be used according to EN10213-3 (Brass or Stainless steel AISI 316).
- The clamping of the cables must be realised outside of enclosure by appropriate torque values to guarantee the mechanical characteristics.
- The cable glands can be used with Ex I circuits.
- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- Cable gland installation shall be done taking into account the temperature range declared for cable glands in relation to protection mode execution, versus the ambient temperature proper of installation gland. Service temperature of the gland is related to the material of the sealing ring but can additionally be limited by the material of the flat washer/oring/accessories.
- Not used of sealing ring holes shall be fitted with pins supplied together with cable gland.

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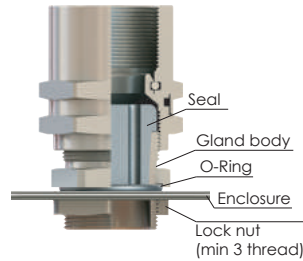
SAFETY INSTRUCTION (IP PROTECTION)

IP protection for Non Threaded enclosure applications (Except for Ex db)

Metric Threads	
Thread	Hole Diameter (min. - max. mm)
M20x1.5	20.0-20.2
M25x1.5	25.0-25.2

The recommended wall thickness is 1,5 mm for non threaded enclosures. In case of the enclosure wall thickness is equal or lower than 1,5 mm, Bimed flat washer should be used between the gland body and the enclosure. O-ring can stay in the channel if it is necessary. During the assembly it is recommended to rotate the locknut. If the assembly needs to be done by rotating the gland, then o-ring should be preferred.

IP protection for cylindrical threaded joint

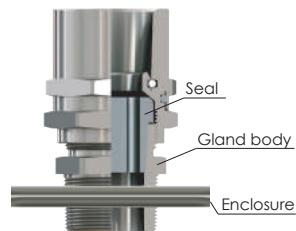


Ex eb and Ex fb execution :

- For threaded enclosures the recommended min wall thickness must be equal to the thickness of the relevant lock nut.

-In case of a sealing agent is used, the metallic continuity must be guaranteed.

IP protection for tapered threaded joint



Ex eb and Ex fb execution:

-For Ex eb applications, please refer to NPT ANSI B1.20.1 standard.

-In case of a sealing agent is used, the metallic continuity must be guaranteed.

NPT"	Minimum Engaged Thread Depth	
	mm	inch
1/2	9,070	0,357
3/4	9,070	0,357

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Single hole ST.H type Size table

Type	Male	Female	Sealing Hole Diameter ØD1
ST.1H25	1M(20)	1M(20)	2,5
ST.1H30	1M(20)	1M(20)	3,0
ST.1H25	1M(20)	2M(25)	2,5
ST.1H30	1M(20)	2M(25)	3,0
ST.1H25	1M(20)	2N(NPT3/4")	2,5
ST.1H30	1M(20)	2N(NPT3/4")	3,0
ST.1H25	2M(25)	1M(20)	2,5
ST.1H30	2M(25)	1M(20)	3,0
ST.1H36	2M(25)	1M(20)	3,6
ST.1H40	2M(25)	1M(20)	4,0
ST.1H25	2M(25)	2M(25)	2,5
ST.1H30	2M(25)	2M(25)	3,0
ST.1H36	2M(25)	2M(25)	3,6
ST.1H40	2M(25)	2M(25)	4,0
ST.1H25	2M(25)	2N(NPT3/4")	2,5
ST.1H30	2M(25)	2N(NPT3/4")	3,0
ST.1H36	2M(25)	2N(NPT3/4")	3,6
ST.1H40	2M(25)	2N(NPT3/4")	4,0
ST.1H25	2N(NPT3/4")	1M(20)	2,5
ST.1H30	2N(NPT3/4")	1M(20)	3,0
ST.1H36	2N(NPT3/4")	1M(20)	3,6
ST.1H40	2N(NPT3/4")	1M(20)	4,0
ST.1H25	2N(NPT3/4")	2M(25)	2,5
ST.1H30	2N(NPT3/4")	2M(25)	3,0
ST.1H36	2N(NPT3/4")	2M(25)	3,6
ST.1H40	2N(NPT3/4")	2M(25)	4,0
ST.1H25	2N(NPT3/4")	2N(NPT3/4")	2,5
ST.1H30	2N(NPT3/4")	2N(NPT3/4")	3,0
ST.1H36	2N(NPT3/4")	2N(NPT3/4")	3,6
ST.1H40	2N(NPT3/4")	2N(NPT3/4")	4,0

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Multi hole ST.H type Size table

Type	Male	Female	Sealing Hole Diameter ØD1	Number of Sealing Holes
ST.7H25	1M(20)	1M(20)	2,5	7,0
ST.4H30	1M(20)	1M(20)	3,0	4,0
ST.7H25	1M(20)	2M(25)	2,5	7,0
ST.4H30	1M(20)	2M(25)	3,0	4,0
ST.7H25	1M(20)	2N(NPT3/4")	2,5	7,0
ST.4H30	1M(20)	2N(NPT3/4")	3,0	4,0
ST.7H25	2M(25)	1M(20)	2,5	7,0
ST.4H30	2M(25)	1M(20)	3,0	4,0
ST.3H36	2M(25)	1M(20)	3,6	3,0
ST.7H40	2M(25)	1M(20)	4,0	7,0
ST.7H25	2M(25)	2M(25)	2,5	7,0
ST.4H30	2M(25)	2M(25)	3,0	4,0
ST.3H36	2M(25)	2M(25)	3,6	3,0
ST.7H40	2M(25)	2M(25)	4,0	7,0
ST.7H25	2M(25)	2N(NPT3/4")	2,5	7,0
ST.4H30	2M(25)	2N(NPT3/4")	3,0	4,0
ST.3H36	2M(25)	2N(NPT3/4")	3,6	3,0
ST.7H40	2M(25)	2N(NPT3/4")	4,0	7,0
ST.7H25	2N(NPT3/4")	1M(20)	2,5	7,0
ST.4H30	2N(NPT3/4")	1M(20)	3,0	4,0
ST.3H36	2N(NPT3/4")	1M(20)	3,6	3,0
ST.7H40	2N(NPT3/4")	1M(20)	4,0	7,0
ST.7H25	2N(NPT3/4")	2M(25)	2,5	7,0
ST.4H30	2N(NPT3/4")	2M(25)	3,0	4,0
ST.3H36	2N(NPT3/4")	2M(25)	3,6	3,0
ST.7H40	2N(NPT3/4")	2M(25)	4,0	7,0
ST.7H25	2N(NPT3/4")	2N(NPT3/4")	2,5	7,0
ST.4H30	2N(NPT3/4")	2N(NPT3/4")	3,0	4,0
ST.3H36	2N(NPT3/4")	2N(NPT3/4")	3,6	3,0
ST.7H40	2N(NPT3/4")	2N(NPT3/4")	4,0	7,0

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Single hole SV.H type Size table

Type	Male	Female	Sealing Hole Diameter ØD1
SV.1H25	1M(20)	1M(20)	2,5
SV.1H30	1M(20)	1M(20)	3,0
SV.1H25	1M(20)	2M(25)	2,5
SV.1H30	1M(20)	2M(25)	3,0
SV.1H25	1M(20)	2N(NPT3/4")	2,5
SV.1H30	1M(20)	2N(NPT3/4")	3,0
SV.1H25	2M(25)	1M(20)	2,5
SV.1H30	2M(25)	1M(20)	3,0
SV.1H36	2M(25)	1M(20)	3,6
SV.1H40	2M(25)	1M(20)	4,0
SV.1H25	2M(25)	2M(25)	2,5
SV.1H30	2M(25)	2M(25)	3,0
SV.1H36	2M(25)	2M(25)	3,6
SV.1H40	2M(25)	2M(25)	4,0
SV.1H25	2M(25)	2N(NPT3/4")	2,5
SV.1H30	2M(25)	2N(NPT3/4")	3,0
SV.1H36	2M(25)	2N(NPT3/4")	3,6
SV.1H40	2M(25)	2N(NPT3/4")	4,0
SV.1H25	2N(NPT3/4")	1M(20)	2,5
SV.1H30	2N(NPT3/4")	1M(20)	3,0
SV.1H36	2N(NPT3/4")	1M(20)	3,6
SV.1H40	2N(NPT3/4")	1M(20)	4,0
SV.1H25	2N(NPT3/4")	2M(25)	2,5
SV.1H30	2N(NPT3/4")	2M(25)	3,0
SV.1H36	2N(NPT3/4")	2M(25)	3,6
SV.1H40	2N(NPT3/4")	2M(25)	4,0
SV.1H25	2N(NPT3/4")	2N(NPT3/4")	2,5
SV.1H30	2N(NPT3/4")	2N(NPT3/4")	3,0
SV.1H36	2N(NPT3/4")	2N(NPT3/4")	3,6
SV.1H40	2N(NPT3/4")	2N(NPT3/4")	4,0

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Multi hole SV.H type Size table

Type	Male	Female	Sealing Hole Diameter ØD1	Number of Sealing Holes
SV.7H25	1M(20)	1M(20)	2,5	7,0
SV.4H30	1M(20)	1M(20)	3,0	4,0
SV.7H25	1M(20)	2M(25)	2,5	7,0
SV.4H30	1M(20)	2M(25)	3,0	4,0
SV.7H25	1M(20)	2N(NPT3/4")	2,5	7,0
SV.4H30	1M(20)	2N(NPT3/4")	3,0	4,0
SV.7H25	2M(25)	1M(20)	2,5	7,0
SV.4H30	2M(25)	1M(20)	3,0	4,0
SV.3H36	2M(25)	1M(20)	3,6	3,0
SV.7H40	2M(25)	1M(20)	4,0	7,0
SV.7H25	2M(25)	2M(25)	2,5	7,0
SV.4H30	2M(25)	2M(25)	3,0	4,0
SV.3H36	2M(25)	2M(25)	3,6	3,0
SV.7H40	2M(25)	2M(25)	4,0	7,0
SV.7H25	2M(25)	2N(NPT3/4")	2,5	7,0
SV.4H30	2M(25)	2N(NPT3/4")	3,0	4,0
SV.3H36	2M(25)	2N(NPT3/4")	3,6	3,0
SV.7H40	2M(25)	2N(NPT3/4")	4,0	7,0
SV.7H25	2N(NPT3/4")	1M(20)	2,5	7,0
SV.4H30	2N(NPT3/4")	1M(20)	3,0	4,0
SV.3H36	2N(NPT3/4")	1M(20)	3,6	3,0
SV.7H40	2N(NPT3/4")	1M(20)	4,0	7,0
SV.7H25	2N(NPT3/4")	2M(25)	2,5	7,0
SV.4H30	2N(NPT3/4")	2M(25)	3,0	4,0
SV.3H36	2N(NPT3/4")	2M(25)	3,6	3,0
SV.7H40	2N(NPT3/4")	2M(25)	4,0	7,0
SV.7H25	2N(NPT3/4")	2N(NPT3/4")	2,5	7,0
SV.4H30	2N(NPT3/4")	2N(NPT3/4")	3,0	4,0
SV.3H36	2N(NPT3/4")	2N(NPT3/4")	3,6	3,0
SV.7H40	2N(NPT3/4")	2N(NPT3/4")	4,0	7,0

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EU DECLARATION OF CONFORMITY



EU DECLARATION OF CONFORMITY

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declares that the products designed to be placed on the market for use in the explosive atmospheres described below:

Cable Gland Types: **SV.H, ST.H**

are in execution II 2GD Ex eb IIC Gb - Ex tb IIIC Db IP66/68 with certificate number, **IMQ 13 ATEX 029X**

EU Directive: ATEX 2014/34/EU

The harmonized standards applied: EN 60079-0:2012+A11:2013
EN 60079-7:2015
EN 60079-31:2014

The compliance of the equipment is not influenced by the modifications introduced by harmonized standards

EN IEC 60079-0:2018
EN IEC 60079-7:2015/A1:2018

Notified body CESI 0722

Istanbul, 15.04.2021

General Manager
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