

Flexible Sealed Gland FSG

Flexible sealed gland FSG is designed to provide mechanical protection of heating, power, control cables in aggressive environmental factors: physical, chemical, ecological. Certified for usage in explosion hazardous zones.

FSG is composed of corrugated steel pipe and 2 pipe fittings. Fittings types should be chosen by the customer according to the engineering design and product type structure.

Flexible sealed gland FSG applied for surface and concealed wiring, building necessary earth circuit of extraneous conductive parts.

Supplied with length range from 0 m to 100 m or longer – according to the customer's request.

A wide range of variants with a possibility of component selection allows to a customer to create an individual configuration depending on engineering design and working conditions.



Features

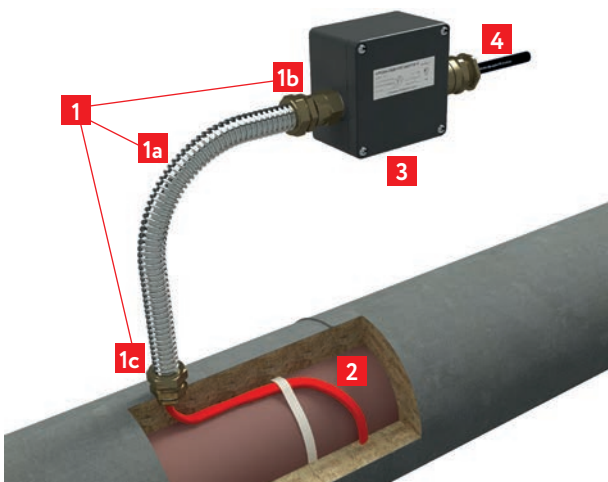
- High mechanical strength and chemical resistance
- Possibility of equipping with pipe coupling for connection with junction boxes, utilities pipes and for penetration of thermal insulation
- Thermal resistant version (up to +200 °C)
- For all types of climates – on land, sea and offshore
- Certified for explosive hazardous zones

Application

- Protection against aggressive environment influence (physical, chemical, ecological factors)

Application Areas

- Hazardous and normal zones – indoor and outdoor
- Surface and concealed wiring
- Aggressive environments on land, on sea platforms



1. Mechanical protection unit FSG (Flexible sealed gland), as a set:
 - a) corrugated stainless steel pipe
 - b) coupling Y1
 - c) coupling Y2
2. Heating circuit (cable)
3. Junction box
4. Power cable

Approvals



° Certification is underway

Cable Glands

Technical Data

| | |
|--|--|
| Length of corrugated pipe as part of unit | from 0 to 100 m* |
| Dust and moisture protection rating | IP67 |
| Explosion protection marking f or gas atmosphere | 1Ex e IIC T6...T3 Gb 1Ex d IIC T6...T3 Gb |
| Explosion protection marking for dust atmosphere | Ex tb IIIC T85C... T200C Db |
| Temperature group of the explosion hazard area | T6 |
| Operating ambient temperature range | -60...+80 °C |
| Minimum installation temperature | -60 °C |
| Climatic version | W |

* longer is possible according to a customer's request

Accessories (to be ordered separately):

FSG installation set – for penetrating of thermal insulation with pipe fitting type “B”.

Product Type Structure

Ordering code: X1*X2-X3-Y1*X4*X5*X6-X7-X8-X9-S10

| Pos. | Numerical | Literal | Determination |
|---------------------------------|----------------------|---|---|
| X1 | | FSG | Flexible sealed gland Flexible sealed gland |
| X2 | 18 20 25 32 | - | Stainless steel corrugated pipe size Stainless steel corrugated pipe 18A Stainless steel corrugated pipe 20A Stainless steel corrugated pipe 25A Stainless steel corrugated pipe 32A |
| X3 | 01 02 | - | for non-armoured cable for armoured cable |
| Y1 Y2 | - | A B C | Coupling A version – corrugated pipe and cable encapsulation Coupling B version – corrugated pipe encapsulation Coupling C version – pipe sealing |
| X4 | - | H B | Thread type: external Thread type: internal |
| X5 | - | M G Rp R Rc | Thread standard: metric Thread standard – G (tubular cylindrical) Thread standard – internal tubular cylindrical Thread standard – external taper pipe thread Thread standard – internal taper pipe thread |
| X6 | 20, 25, 32, 40 | - | Thread size |
| X7 | - | F R | Sealing type – for flat cable Sealing type – for round cable |
| X8 | YY,Y | - | Corrugated pipe length, m |
| X9 | 200 | T | Thermal resistant version, up to 200 °C |
| Polymeric enclosure type | | | |
| S10 | | T C H P N ng (...) - LS HF LSLTx HFLTx | tracking resistant oversheath material high frost resistance high heat resistance oil-, petrol-resistant oversheath material, flame-retardant in single wiring oversheath material, flame-retardant in bunched wiring fire hazard rate (AF/R, A,B,C,D) for oversheath flame-retardant in bunched wiring dash with low fume and gas emission non-emitting corrosive gaseous products in burning and smoldering with low fume and gas emission and with low toxicity of combustion product non-emitting corrosive gaseous products in burning and smoldering and with low toxicity of combustion product |

Ordering Information

Example: FSG20-02-AHM25-ABG3/4"-K-5,0-T200

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

1. Flexible sealed gland
2. Stainless steel corrugated pipe, type 20A
3. For armoured cable
4. Coupling Y1 version – corrugated pipe and cable encapsulation
5. Thread type – external
6. Thread standard – metric
7. Thread size
8. Coupling Y2 version – corrugated pipe and cable encapsulation
9. Thread type – internal
10. Thread standard – G (tubular cylindrical)
11. Thread size
12. Sealing type – for round cable
13. Corrugated pipe length, m
14. Thermal resistant version, up to 200 °C