

Joint flange for C tightness class ducts

FL



Description

The joint flanges together with the corners are used to make the connections for rectangular ducts. The flanges have a rigid construction and are easily mounted on the duct sheet. There are three flange sizes available to produce rectangular duct connections of various dimensions and strength classes. All flanges use a sealing mastic for sealing sheet steel, which achieves a tightness class C of LST EN 1507. The butyl or gel type mastic meets hygiene requirements in accordance with VDI 6022. The flanges allow for a very tight connection in the duct system. The flanges can be used at temperatures from -45 to +80 ° C. The mastic is durable, does not harden and maintains a soft structure for a long time. Perfectly adheres to steel surfaces, protecting the joint from corrosion. The flange profile is made of galvanized sheet steel - corrosion class C2-M/C3-L according to LST EN ISO 12944 standard. Can also be made of other materials: stainless steel sheet AISI 304 (1.4301) or AISI 316L (1.4404) - corrosion class C5.

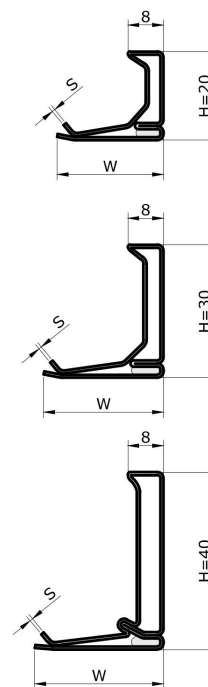
Ordering code

.....FL20L1000

Galvanized steel -
AISI 304 – NP
AISI 316L – 316NP
Product
Ordering length, if standard - ...

Sample: FL20L1000 – made of galvanized steel profile F20, thickness 0,7 mm, ordering length 1000 mm.

Dimensions



| Type | H [mm] | s [mm] | W [mm] | L [mm] | Mass, [kg/m] |
|------|--------|--------|--------|--------|--------------|
| FL20 | 20 | 0,7 | 24 | 5000* | 0,60 |
| FL30 | 30 | 0,8 | 27 | 5000* | 0,74 |
| FL40 | 40 | 1,0 | 29 | 5500* | 1,42 |

* - standard length of the produced profile. Custom cut of profile in required length, on request.

Technical data

| Pressure in the duct [Pa] | Side connection of the duct W or B, mm | | | |
|-----------------------------|--|-----------|-----------|--------|
| | < 1000 | 1001-1500 | 1501-2500 | 2501 < |
| < 1000 [Pa] | FL20 | FL20 | FL30 | FL30 |
| 1001-1500 [Pa] | FL20 | FL30 | FL30 | FL40 |
| 1501 [Pa] < | FL20 | FL30 | FL40 | FL40 |

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Technical data

Gel type mastic for FL20 and FL30 flanges.

Application temperature: -30 ° C to + 120 ° C.

Melting point: + 180 ° C

Corrosion resistance: corrosion resistant, class 0 to DIN51802

Viscosity at + 40 ° C: 100 mm² / s

Water solubility: insoluble

Ingredients: mineral oil, lithium soap.

The mastic is easily sterilized and allowed to be used in clean rooms. The mastic is tested and meets the requirements of DIN ISO 846 for the growth of bacteria and fungi on the surface.

Butyl type mastic for FL40 flange.

Application temperature: -40 ° C to + 90 ° C.

Melting point: + 140 ° C

Corrosion resistance: corrosion resistant and many materials (isopropanol, acetic acid 5%, saline 5%, methyl alcohol, oil)

The mastic is resistant to sea water

Density: 1.2 g / cm³

Water solubility: insoluble

Composition: butyl rubber

Mastic is allowed to be used in clean rooms as per VDI 6022.

Mastic is tested and meets the requirements of DIN ISO 846 for the growth of bacteria and fungi on the surface. The mastic is free of silicone, halogen and solvent additives.

Safety requirements.

If symptoms / symptoms persist, seek medical attention.

Show your Material Data Sheet to your doctor. Give nothing to the victim to eat. Watch breath, pulse. Do not give to drink milk, greasy drinks, alcohol.

If inhaled - Remove victim to fresh air. If symptoms persist, seek medical attention. Keep victim warm and at rest. In case of unconsciousness place patient in stable position and seek medical advice. The airways should be kept clean. If breathing is irregular or stopped, give artificial respiration.

In case of skin contact - Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water quantity. If irritation persists, consult a doctor immediately. Do not wash skin with organic solvents.

In case of contact with eyes - Remove contact lenses. Rinse immediately with plenty of running water, also under the eyelids, for at least 10 minutes. If the other eye is intact, protect it from contact during washing. Seek medical attention if eye irritation persists.