



TECHNIKA

T-pieces 90°

FTS



Description

T-pieces distribute air movement evenly when it is necessary to move from one duct dimension to two different dimensions. The products can be made of: galvanized steel sheet - corrosion class C3-L / C2-M; sheet with aluminium zinc coating - corrosion class C4-M / C3-H; stainless steel sheet AISI 304 (1.4301) or AISI 316L (1.4404) - corrosion class C5. Surfaces is made with reinforcement, stiffened with transverse trapezoid corrugations, resulting in low self-noise and greater resistance to pressure vibrations. Standard t-piece joint tightness class B according to LST EN 1507. Products of higher tightness class C are also available on request. T-piece can be used at temperatures from -45 to +85 °C with appropriate insulation. The maximum permissible absolute humidity inside the air stream and outside is 18 g / kg. Protective films, that ensure cleanliness, are placed at the customer's request when ordering. For other dimensions and materials, please contact UAB "MK Technika" sales offices.

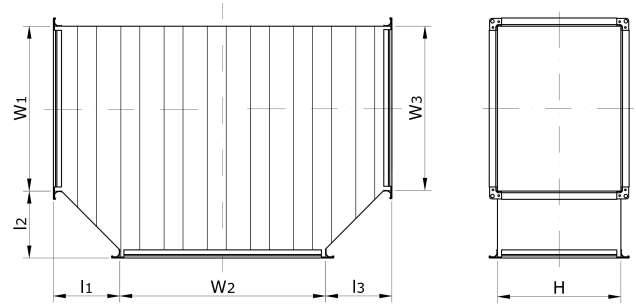
Ordering code

..... FTS 300400/500400/300400-800

| | | | |
|--|--|--|--|
| Galvanized steel - AISI 304 - NP AISI 316L - 316NP | | | |
| Product | | | |
| Width, height - W1, H, mm | | | |
| Width, height - W2, H, mm | | | |
| Width, height - W3, H, mm | | | |
| Length L, mm | | | |

Sample: FTS 300400/500400/300400-800 - made of galvanized steel sheet t-piece, dimensions W2xH- 500x400 mm, to two sides dimension W1/W3xH 300x400, length 800 mm.

Dimension



| | W1, W2, W3 [mm] | H [mm] | l1, l2, l3 [mm] |
|--------------------|--------------------|------------|--------------------|
| Minimum dimension | 100 | 100 | 25 |
| Standard dimension | 2100 | 2100 | 150* |
| Flange F20 | Up to 1499 | Up to 1499 | Up to 1499 |
| Flange F30 | 1500-2100 | 1500-2100 | 1500-2100 |

*150 mm length is produced as standard with a 45 ° angle, which can be changed to radius as required, or to a straight angle. The length of the t-piece varies from the dimensions W2, l1 and l3, so it is calculated for each product separately.

Technical data

Large-sized t-pieces are internally reinforced with rods. T-piece can be ordered with a connection flange, without flange, or with a ready flange but not connected. T-piece flanges come with a sealing gel. The gel meets the requirements of VDI 6022 standard. The pressure losses of the rectangular system are calculated using data from round ducts. Calculate the cross area and take the nearest smaller cross area of the circular duct.

| Weight formula [kg] (galvanized steel) | W1(2) biggest dimension [mm] | H [mm] |
|---|------------------------------|----------------------|
| $m[\text{kg}] = 9 \cdot (W1(2)[\text{m}] \cdot L[\text{m}] + H[\text{m}] \cdot L[\text{m}]) + 4 \cdot (W1(2)[\text{m}] + H[\text{m}])$ | Up to 1000 | Up to 1000 |
| $m[\text{kg}] = 10 \cdot (W1(2)[\text{m}] \cdot L[\text{m}] + H[\text{m}] \cdot L[\text{m}]) + 4 \cdot W1(2)[\text{m}] + 3 \cdot H[\text{m}]$ | From 1001 up to 1400 | Up to 1000 |
| $m[\text{kg}] = 10 \cdot (W1(2)[\text{m}] \cdot L[\text{m}] + H[\text{m}] \cdot L[\text{m}]) + 5 \cdot (W1(2)[\text{m}] + H[\text{m}])$ | From 1001 up to 1400 | From 1001 up to 1400 |
| $m[\text{kg}] = 12 \cdot (W1(2)[\text{m}] \cdot L[\text{m}] + H[\text{m}] \cdot L[\text{m}]) + 5,5 \cdot W1(2)[\text{m}] + 6 \cdot H[\text{m}]$ | From 1401 up to 2100 | From 1001 up to 1400 |
| $m[\text{kg}] = 12 \cdot (W1(2)[\text{m}] \cdot L[\text{m}] + H[\text{m}] \cdot L[\text{m}]) + 6 \cdot (W1(2)[\text{m}] + H[\text{m}])$ | From 1401 up to 2100 | From 1401 up to 2100 |



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When operating the duct system it is very important to observe the maximum allowable vacuum pressure. It varies depending on the size of the duct. Also, the stability of the entire system has a smooth and even duct surface that can be damaged during transportation or installation, which is why it is important to protect the ducts and other elements from damage. We recommend that you observe the maximum allowable pressures Pa in the table when selecting the duct system. For pressures close to the critical limit, we recommend the use fine ducts to prevent possible duct compression or swelling in the system.

| Maximum allowable system pressure [Pa] | W [mm] | H [mm] |
|--|----------------------|----------------------|
| 1000 | Up to 1000 | Up to 1000 |
| 1000 | From 1001 up to 1400 | Up to 1000 |
| 1300 | From 1001 up to 1400 | From 1001 up to 1400 |
| 1500 | From 1401 up to 2100 | From 1001 up to 1400 |
| 1500 | From 1401 up to 2100 | From 1401 up to 2100 |