



M&S pipe fittings are used for the production of hygienic piping systems in the production facilities of the food, chemical, cosmetic and pharmaceutical industries. They are used to change direction, divide the flow and transition between different diameters in a pipeline section.

For aseptic applications, fittings are available in orbital weldable design and various hygienic classes.

Depending on the area of application, the operating conditions and the hygienic requirement, a suitable material and the required quality must be selected.

Variations of pipe fittings



Usage

Features

Versions

- Manufacture of media-carrying piping systems for production plants.
- Piping and connection of machines, apparatus and containers.
- Manufacture of piggable piping sections.
- Construction of pipe structures, racks, railings and handrails.

Usage


Features

Versions

- Very extensive stock programme in different designs, dimensions and qualities according to standard.
- Manufactured from longitudinally welded pipes in annealed (BC*) or non-annealed design (CC).
- Compliance with angle and dimensional tolerances as well as ovality specifications guarantee welding without stresses and offsets.
- Versions for the production of piggable piping systems are available.

* Higher corrosion resistance against pitting corrosion when using moulded parts made of annealed material or in a post-annealed version (BC).



Usage	Features	Versions
<ul style="list-style-type: none">• Sizes<ul style="list-style-type: none">* DN 10 - DN 200 (1/2" - 4") for pipes according to DIN 11866 and DIN EN 10357.• Pipe connection<ul style="list-style-type: none">* Welding ends (standard) or the M&S-connecting parts, also available with orbital welding ends (DIN 11865).• Permissible pressure<ul style="list-style-type: none">* 40/25/16/10/6 bar depending on dimension• Materials<ul style="list-style-type: none">* 1.4435, 1.4404, 1.4307* Other stainless steels, titanium or hastelloy• Surfaces<ul style="list-style-type: none">* DIN 11865: hygienic classes H2-H5* DIN EN 10374 (DIN 11852):<ul style="list-style-type: none">Inside surface roughness $Ra \leq 1,6 \mu\text{m}$Weld seam area $Ra \leq 3,2 \mu\text{m}$Outside surface roughness $Ra \leq 3,2 \mu\text{m}$• Certification<ul style="list-style-type: none">* Certificate 2.2 according to DIN EN 10204* Inspection certificate 3.1 according to DIN EN 10204 for the primary material• Bends (figure 1)<ul style="list-style-type: none">* Standards DIN 11865, DIN 11867, DIN EN 10374 (DIN 11852)* 90°, 45°, 180°* In different radii e.g. 1,5D, 3D oder 5D (D = diameter)* With pull-out or socket for thermometer connection.• Tees and crosses (figure 2)<ul style="list-style-type: none">* DIN 11865, DIN EN 10374 (DIN 11852)* Short version (TK)* Long version (TS)* Outlet reduced* T-bends or double T-bends (Y-piece)• Reducers and connecting pieces (figure 3)<ul style="list-style-type: none">* DIN 11865, DIN EN 10374 (DIN 11852)* Concentric (RK)* Eccentric (RE)		<p data-bbox="1062 443 1129 472">Fig. 1</p>  <p data-bbox="1062 1025 1129 1055">Fig. 2</p>  <p data-bbox="1062 1641 1129 1671">Fig. 3</p> 