Product information



Armaturen GmbH

M&S-Tees and crosses general information

M&S tees and crosses are used for flow distribution in hygienic pipe sections in the food, chemical, cosmetic and pharmaceutical industries.

For aseptic applications, tees and crosses are available in orbital weldable version and in different hygienic classes.

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

 Variations of tees and crosses
 Reducing tees

Fig. 1

Usage Features Versions

- Flow splitting in pipe sections for product and energy piping.
- Versions available for use in piggable pipeline sections.
- Construction of pipe structures, racks, railings and handrails.

Usage	Features	Versions
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- Very extensive stock programme in different versions, 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.
- Flow-optimised tees also available as T-bends or double-T-bends.
- Versions for the production of piggable piping systems available.
- * Higher corrosion resistance against pitting corrosion when using moulded parts made of annealed material or in a postannealed version (BC).



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L	Jsage	Features	Versions	
 Design To 	ees and crosses Long: tee TL, cro Long, reduced: te Short: tee TS (fig Short, reduced: te -bend (figure 4) and d N 10 - DN 200 (1/2" - innection /elding ends (standard 0357, other sizes ava	ee TRL (figure 1), cross grue 3), cross ee TRS, cross double-T-bend (Y-piece, figure 5) 4") d) for pipes according to DIN EN ilable: Inch, ISO ital welding ends DIN 11865 for 11866. parts np-clamp) e-male) -liner/nut) nut-male) nut-liner/nut)	Fig. 2 Tig. 2 Fig. 3	
150°C) * D * D * D * D * D * D • Materia * Si * O • Surface * D * D * D * Certifica	sible pressure (DIN 1 N 10 - DN 50: 25 ba N 65 - DN 80: 16 ba N 100: 12,5 H N 125: 10 ba N 150: 8 bar N 200: 5 bar Is tandard: 1.4404/AISI ther stainless steels, es IN 11865: hygienic cla IN EN 10374 (DIN 11 Inside surface rou Weld seam area Outside surface r tandard: metal blank,	1852, only for temperatures up to ar ar bar ar 316L, 1.4307/AISI 304L titanium or hastelloy asses H2-H5 852): ughness $Ra \le 1,6 \ \mu m$ $Ra \le 3,2 \ \mu m$ roughness $Ra \le 3,2 \ \mu m$ mat blasted, others available.	Fig. 4 Fig. 5	
	spection certificate 3. le primary material	.1 according to DIN EN 10204 for		

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