MS Armaturen GmbH

Product information

M&S-Reducers and intermediate pieces general

M&S reducers and intermeditate pieces are used as transitions between different diameters in hygienic pipe sections in the food, chemical, cosmetic and pharmaceutical industries.

For aseptic applications, reducers are available in orbital weldable design and in various quality classes. Depending on the area of application, the operating conditions and the hygienic requirement, the right design, a suitable material and the required quality must be selected.

Variations of reducers and intermediate pieces



Usage Features Versions

- Reducers as weldable or detachable transitions between different pipe diameters for product and energy piping. Eccentric, depending on the installation position, to avoid liquid residues (sump) or gas bubbles (dome).
- Intermediate pieces as detachable adapters for different connecting elements.

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 version (CC).
 Reducers according to DIN 11865 made of solid material.
- Adherence to angle and dimensional tolerances guarantee welding without stresses and offsets.
- With extended welding ends for orbital welding according to DIN 11865.
- Higher corrosion resistance against pitting corrosion when using moulded parts made of annealed material or in post annealed design (BC).

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	Usage Features	Versions
•	Standards * Standards DIN 11865, DIN EN 10374 (DIN 11852)	Fig. 1
•	Design	
	 Concentric RK (figure 1) 	
	 Eccentric RE (figure 2 and 4) 	
•	Sizes	
	* DN 10 - DN 200 (1/2" - 4")	
•	Pipe connection	
	 Welding ends (standard) for pipes according to DIN EN 10357, other dimensions available: Inch, ISO 	Fig. 2
	 Also available with orbital welding ends DIN 11865 for pipes according to DIN 11866 (figure 4). 	
	 With M&S-connecting parts 	
	 CC (clamp-clamp, figure 3) 	
	MM (male-male)	
	 ML (male-liner/nut) 	
	◆ LM (liner/nut-male)	
	 LL (liner/nut-liner/nut) 	
•	Permissible pressure (only for temperatures up to 150°C)	
	 DN 10 - DN 50: 25 bar DN 65 - DN 100: 16 bar DN 125 - DN 200: 10 bar 	Fig. 3
•	Materials	
	* Standard: 1.4404/AISI 316L, 1.4307/AISI 304L	
	 Other stainless steels, titanium or hastelloy 	
•	Surfaces	
	 DIN 11865: hygienic classes H2-H5 DIN EN 10374 (DIN 11852): 	
	Inside surface roughness <i>Ra</i> ≤ 1,6 μm Weld seam area <i>Ra</i> ≤ 3,2 μm Outside surface roughness <i>Ra</i> ≤ 3,2 μm	Fig. 4
	 Standard: metal blank, mat blasted, others available. 	
•	Certification	
	 Certificate 2.2 according to DIN EN 10204 	
	 Inspection certificate 3.1 according to DIN EN 10204 for the primary material 	