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HAFNER PNEUMATIKA - Technical Specifications for Suppliers

1. Dimensional tolerances, defects

- 1.1. For dimensions without specific tolerances, the following standards apply: ISO 2768-1:1989 Part 1: Tolerances for linear and angular dimensions without individual tolerance indications, class "m" (medium), and ISO 2768-2:1989 Part 2: Geometrical tolerances for features without individual tolerance indications, class "H" (fine).
- 1.2. Unless explicitly approved by the Customer, components must be free of visible defects under suitable inspection and lighting conditions at 10x magnification.

2. Undefined edges

- 2.1. Unspecified edge breaks should comply with DIN ISO 13715:
 - 2.1.1. external edges: max. -0,1 mm
 - 2.1.2. internal edges: max. +0,2 mm
- 2.2. For edge markings such as "sharp-edged, burr-free", "sharp-edged", and "burr-free", a tolerance of ± 0.02 mm according to DIN ISO 13715 must be applied.
- 2.3. For intersecting bores or bore transitions, the maximum allowable burr is +0.1 mm.

3. Threading

3.1. Thread inspection with gauges

Tolerances for thread production and inspection:

External M thread: 6g

- Internal M thread: 6H

External G thread: A

- Internal G thread: A

- External UNF thread: 2A

- Internal UNC thread: 2B
- For internal threads, the "no-go" side of the gauge may be screwed in no more than two full turns. Similarly, for external threads, the "no-go" side of the ring gauge may be screwed on no more than two full turns (see DIN ISO 1502).
- The "go" side must pass through the full thread length.
- 3.2. Thread starts, run-outs, and chamfers
 - Thread starts and run-outs must always be chamfered
 - For external threads: minimum corner break = root diameter -0,1 / -0,2 mm
 - For internal threads: maximum corner break = thread diameter +0,1 / +0,2 mm
 - Chamfer angle: 45° ± 5°
 - Thread run-outs according to DIN 76:
 - o External threads:

run-out: x2

run-out before collar: a2

undercut: B2

Internal threads:

run-out: e2xundercut: D2

3.3. Turning stub

Turning stubs on components are generally not permitted. In problematic cases, prior consultation is required before production. Applicable standard: DIN 6785.

3.4. Dimensional changes from surface and heat treatment

The technical drawing includes the finished dimensions of the part after surface or heat treatment. During production, dimensional changes from treatment must be considered based on the relevant technology.

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