

# Datasheet

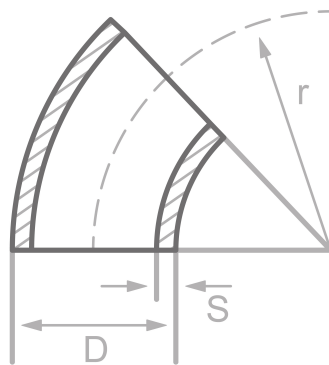
## Description

Elbows, ANSI/ASME B16.9, LR, 45°  
ASTM A234 WPB, certificate 3.1

## Main data

Type 3/LR, 3" s.20

|   |           |
|---|-----------|
| D | 88.90 mm  |
| S | 3.96 mm   |
| r | 114.00 mm |



## Chemical analysis (heat) in % of mass

(one content=max. value)

Short name: WPB

Mat. grade: ----

| C    | Si   | Mn   | P     | S     | Cr   | Cu   | Mo   | Nb | Ni   | Ti | V    | Others |
|------|------|------|-------|-------|------|------|------|----|------|----|------|--------|
| 0.30 | 0.10 | 1.06 | 0.048 | 0.058 | 0.40 | 0.40 | 0.15 |    | 0.40 |    | 0.08 |        |

## Mechanical properties

Short name: WPB

Mat. grade: ----

| Upper yield strength reH or Rp0.2 min<br>for wallthicknesses T in mm, N/mm <sup>2</sup> at room temperature |             | Tensile strength Rm for wallthickn. T<br>in mm, N/mm <sup>2</sup> at room temperature |             | Elongation A at room-<br>temperature, min.% |         | Min. impact energy<br>KV in J |         |
|---|-------------|---|-------------|---|---------|-------------------------------|---------|
| T ≤ 16  | 16 < T ≤ 60 | T ≤ 16  | 16 < T ≤ 60 | Longit.                                     | Transv. | Longit.                       | Transv. |
| 240   | 240         | min. 415  | min. 415    | 30  | 17      |                               |         |

Sources: EN 10253, DIN 17175, DIN 2528, DIN 1629, Stahlschlüssel, ASTM

