The 664 and 665 series nozzles come with the conventional, automatic self-aligning dovetail connection which ensures that every nozzle will always be installed under the correct spray offset angle towards the roll center line.

This nozzle family has become an industrial standard solution for roll cooling applications. All tips have an automatically built-in 15° offset angle if the welding nipple is welded in line with the centre line of the spray header. Any other offset angle has to be compensated for by welding the nipple under a different angle (minus the 15° built-in offset angle).

The spray has a parabolic liquid distribution which is ideal for a multi-nozzle header arrangement.

### Ordering no. Material-no. = Ordering no.

Example: Type + Material-no. = Ordering no. for Ordering: 664. 721 + 17 = 664. 721. 17

#### Conversional formula for the above series:

$$V_2 = V_1 \times \sqrt{\frac{p_2}{p_1}}$$

### Accessories

- Welding nipple
- Retaining nut

Other offset angles are available on request.

Technical data and ordering data for accessories see page 13.

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**E = Narrowest free cross section. * US gal/min Subject to technical modifications**