

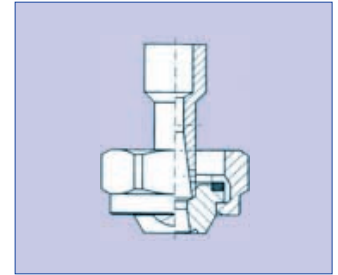
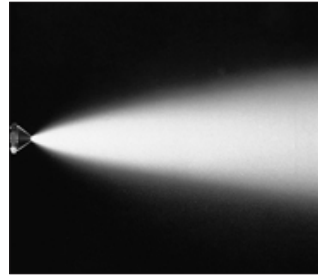
Twin Fluid Nozzles with internal mix model range 170/171/180

The Lechler Twin Fluid Nozzle range 170/171/180 works as per the supersonic principle. Gas and liquid are mixed in the mixing chamber inside the nozzle (internal mix) and are united to an intensive 2-phase mixture. The further forming of the nozzle geometry has as an effect of accelerating this mixture to supersonic speed. This leads to an extremely fine atomization of the droplets with a good regulating characteristic. For Twin Fluid Nozzles with internal mixture the air/water-ratio plays an important role. **The size of the maximum droplet can be regulated in a big range by variation of the air/water-ratio while the plant is operating.**

The large free cross sections in the nozzle also allow the atomization of viscous liquids and up to a certain extent even abrasive media in maintenance-free use. Twin Fluid Nozzles of the model range 170/171/180 are available in all types of steel, chrome-nickel alloys, plastic materials (PVC, PVDF, PTFE) and ceramic materials.

Advantages:

- Adjustable droplet size
- Wide range of volume rates
- Large free cross sections
- Wear-resistant ceramic inserts



Functional data of model range 170/171/180

- Liquid pressure: 1,0 - 5,0 bar ü
- Air pressure: 1,0 - 5,0 bar ü
- Regulating range up to max.: 1 : 30
- Spray angle: 15° and 60° (see p. 8)

Product codes for ordering (Selection)	E ø [mm]	E ø [mm]	Air pressure p [bar]											
			1,0			2,0			3,0			4,0		
			Water [bar]	Water [l/min]	Air [m³/h]	Water [bar]	Water [l/min]	Air [m³/h]	Water [bar]	Water [l/min]	Air [m³/h]	Water [bar]	Water [l/min]	Air [m³/h]
170.641	3,0	4,2	0,9 0,95 1,0	0,4 1,0 2,5	24,0 20,0 14,0	1,8 1,9 2,0	0,6 1,5 3,5	37,0 33,0 22,0	2,7 2,9 3,1	0,8 3,0 5,0	50,0 35,0 26,0	3,6 3,9 4,1	0,9 4,0 7,0	68,0 44,0 32,0
170.721	3,7	5,0	0,9 0,95 1,0	0,5 2,0 3,5	34,0 28,0 22,0	1,8 1,9 2,0	0,7 3,0 5,5	50,0 40,0 31,0	2,7 2,9 3,1	0,9 4,0 7,5	69,0 58,0 42,0	3,6 3,9 4,2	1,0 8,0 12,0	88,0 66,0 55,0
170.801	2,0	5,5	0,7 0,9 1,0	1,0 3,0 5,0	40,0 35,0 32,0	1,5 1,8 2,0	1,0 5,0 10,0	58,0 52,0 48,0	2,2 2,6 3,0	1,2 7,0 14,0	80,0 72,0 63,0	3,2 3,6 4,0	1,2 10,0 20,0	105,0 91,0 83,0
170.881	2,8	7,6	0,6 0,8 0,9	1,0 5,0 8,0	60,0 55,0 50,0	1,5 1,7 1,9	1,2 7,0 13,0	95,0 90,0 80,0	2,2 2,5 3,0	1,5 10,0 19,0	130,0 118,0 105,0	3,1 3,5 4,1	1,8 15,0 28,0	171,0 154,0 143,0
170.961	3,2	9,5	0,6 0,8 1,0	1,0 5,0 12,0	94,0 85,0 72,0	1,4 1,7 1,9	1,2 10,0 19,0	155,0 130,0 115,0	2,2 2,6 3,0	1,5 15,0 26,0	210,0 179,0 152,0	3,0 3,5 4,1	1,8 20,0 38,0	275,0 220,0 198,0

Further designs on request