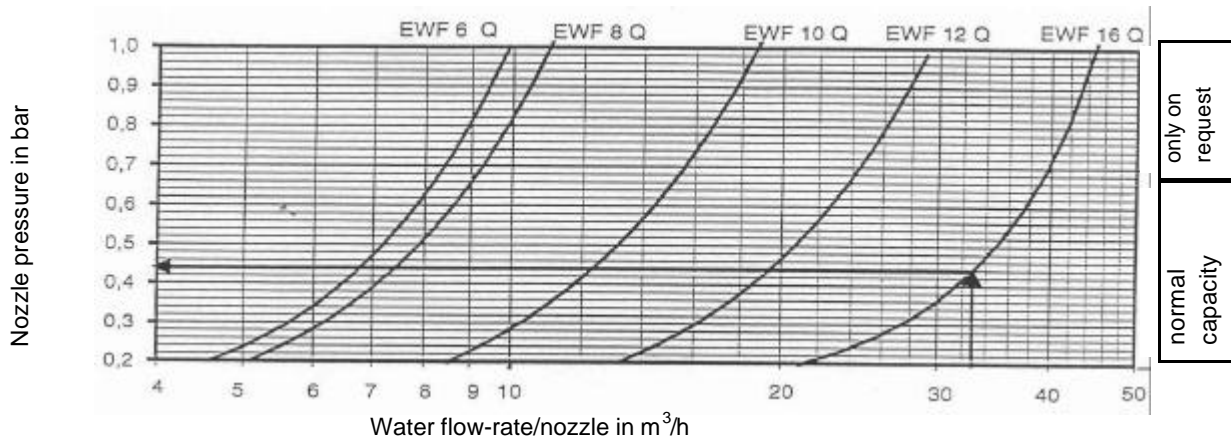# Determination of nozzle pressure
## Cooling tower EWK 036 – EWK 9000 – EWK and EWB series
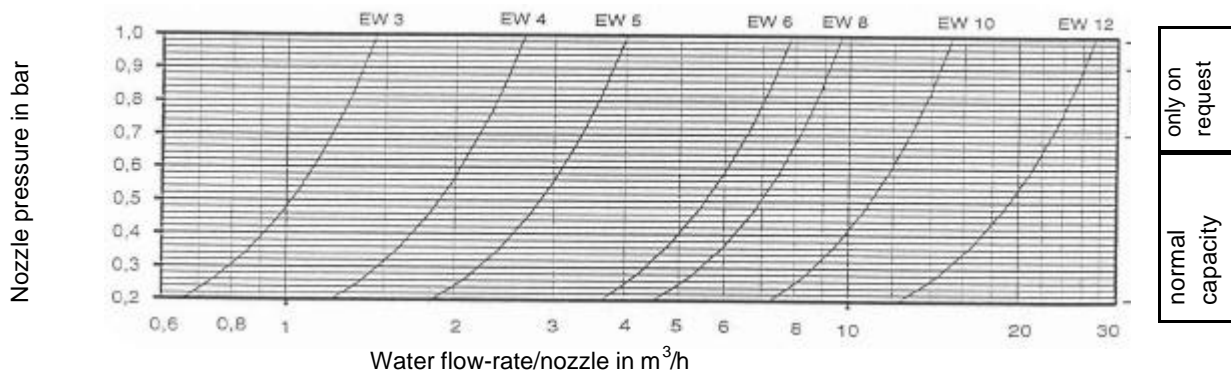
### Series production of cooling towers with flange nozzle – type EWF 6…16 – Q

| Modupol | EWK serie | EWB serie | |
|---|---|---|---|
| | | one cell | two cells |
| EWK 2100  16 nozzles | EWK  144   1 nozzle | EWB 1300   9 nozzles | EWB 2600  18 nozzles |
| EWK 3100  24 nozzles | EWK  230   4 nozzles | EWB 1730  12 nozzles | EWB 3460  24 nozzles |
| EWK 4200  32 nozzles | EWK  450   4 nozzles | EWB 2300  16 nozzles | EWB 4600  32 nozzles |
| EWK 4500  36 nozzles | EWK  630   6 nozzles | EWB 2875  20 nozzles | EWB 5750  40 nozzles |
| EWK 6200  48 nozzles | EWK  900   8 nozzles | EWB 3600  25 nozzles | EWB 7200  50 nozzles |
| EWK 9000  72 nozzles | EWK 1260  12 nozzles | | |
| | EWK 1800  16 nozzles | | |



Nozzle pressure in bar

Water flow-rate/nozzle in $m^3$/h

only on request

normal capacity

### Series production of cooling towers with screw nozzle – type EW 3…12

EWK 036  1 nozzle  type 3… 8          EWK 324  4 nozzles   type 6…12
EWK 064  1 nozzle  type 5…12



Nozzle pressure in bar

Water flow-rate/nozzle in $m^3$/h

only on request

normal capacity

Selection example EWK 3100

According to the capacity diagram, the cooling tower EWK 3100 is selected. The water flow $m_W$ is 790 $m^3$/h; 24 nozzles. The water flow-rate/nozzle is 790 / 24 = 32.9 $m^3$/h. Provided are nozzles type EWF 16 Q, nozzle pressure comes to $P_{nozzle}$ = 0.44 bar.

In a cooling tower, which is already in operation the nozzle pressure could be measured with a manometer. The water flow rate will be determinated in accordance with this diagram.

Subject to alteration.