

## GEA 2H SPN Spray Nozzles with HX-Factor

### Optimum Water Distribution



GEA offers water distribution nozzles for cooling towers, humidifiers, scrubbers, air coolers and aerators. These nozzles are made of glass fiber reinforced polyamide (nylon) and are resistant to a large range of chemicals. Their smooth surface impedes clogging and scaling. The spray angle of 120° provides an optimum water distribution above the cooling tower packing.

The axial nozzles are designed as complete cone spiral nozzle consisting of a casing and an insert. Correctly assembled, the nozzles distribute the water with a spray angle of 120°, where the water flow rate depends on the operational pressure.

We recommend checking the operation conditions, as nozzle distance and height have to be chosen according to the respective plant requirements.

Our products have got the HX-Factor. It is our promise and stands for our unique competence in heat exchange (HX = HEAT EXCHANGE).

#### HX-Factors of our SPN Spray Nozzles

- Low clogging and scaling tendency due to smooth surface design
- Constant self-cleaning by high turbulence in the nozzle body
- Easy installation onto the piping system due to BSP thread and hexagon body design
- High resistance to a large range of chemicals because the nozzles are made of glass reinforced polyamide (nylon)

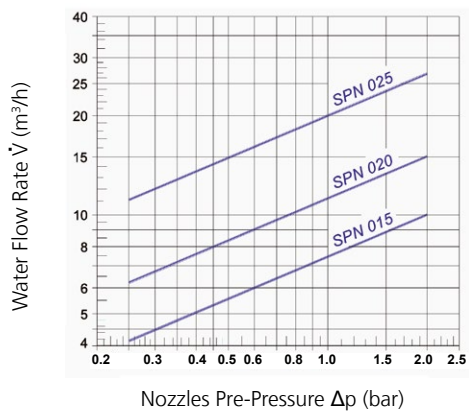
## GEA 2H SPN Spray Nozzles

### Technical Data

Type	Application	Material	Thread ISO 228/1	Thread height	Total height	Spanner width	Spray angle	Operation pressure	Permanent service temperature	Max. application temperature
			inch	mm	mm	mm	°	bar	°C	°C
SPN 015	Liquid distribution in vertical operation  at cooling towers humidifiers scrubbers air coolers aerators	glass reinforced polyamide (nylon)	1½	17,5	48	50	120	0.2 – 2.0	60	80
SPN 020		glass reinforced polyamide (nylon)	2	19	60	65	120	0.2 – 2.0	60	80
SPN 025		glass reinforced polyamide (nylon)	2½	28	75	80	120	0.2 – 2.0	60	80



### Flow Diagram



This information has been put together with greatest care. However, any performance data given in this leaflet is subject to compliance with certain surrounding conditions and hence may vary from case to case. Further, we reserve the right to make changes at any time without notice. We strongly recommend (i) reconfirmation with GEA 2H whether this information is still fully valid, before using it for final designs and (ii) to verify performance data taking into account the actual surrounding conditions. GEA 2H takes no responsibility for any consequences due to non-compliance with these recommendations.

## GEA Heat Exchangers

GEA 2H Water Technologies GmbH

Dieselweg 5, 48493 Wettringen, Germany  
 Phone +49 25 57 / 93 90 0, Fax +49 25 57 / 93 90 49  
 2h.hx.de@gea.com, www.gea-2h.com

