




Brief Brochure of Nozzles

 AMK Metallurgical Machinery Group Co., Ltd is located in Wuxi, Jiangsu province. The predecessor of AMK was known as BAOLONG which was established on April 27th, 1999. AMK is specialized in producing and supplying metallurgical & mechanical equipments and spare parts for steel mill, rolling mill, ferroalloy industry, foundry, mineral processing industry etc. We also provide agency services for domestic and worldwide manufacturers.

1. We supply continuous casting machine and related equipments and spare parts.
2. We supply rolling mill equipments and spare parts
3. We supply industrial furnaces and related spare parts for steelmaking, like EAF, LF, electrode conductive arm, etc
4. We supply metallurgical consumables for iron & steel-making plants
5. We supply graphite products with different grades
6. We supply stainless steel products

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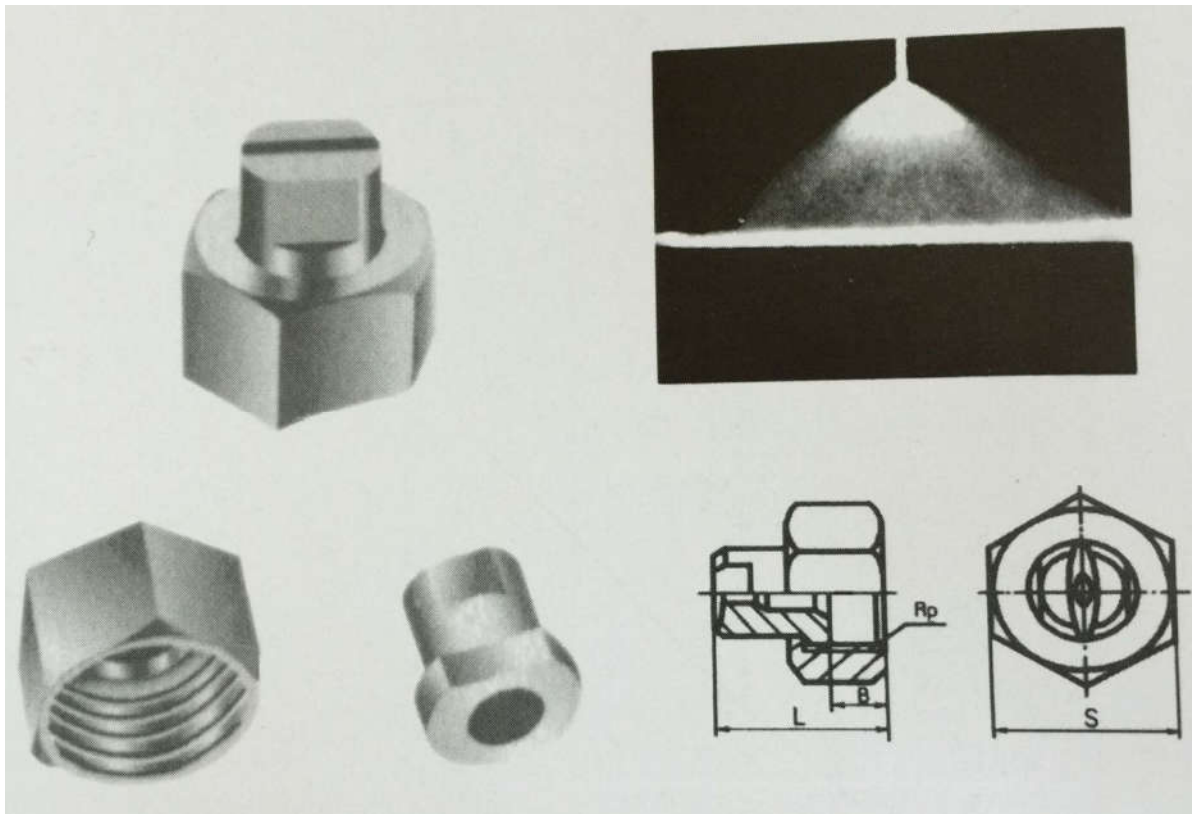
Our major products include series PZ water nozzle, series HPZ air-water spraying nozzle, series GPZ high pressure nozzle, nozzle for painting application, petrochemical industry, paper-making, mechanical lubrication, dust removing, etc. This brochure only covers some of our water nozzles that mainly used in iron & steel plants. If you need more detailed technical data for selecting nozzles, please contact us.

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Flat Nozzle

Spray Feature and Application:

The nozzle has the features of compact structure, stable performance and even atomization. Its spray pattern is of flat and strip, mainly suitable for the secondary cooling of continuous casting machine for bloom/billet and slab also suitable for apparatus that need to be cooled.



Material: H62 HPb59-1 1Cr18Ni9Ti



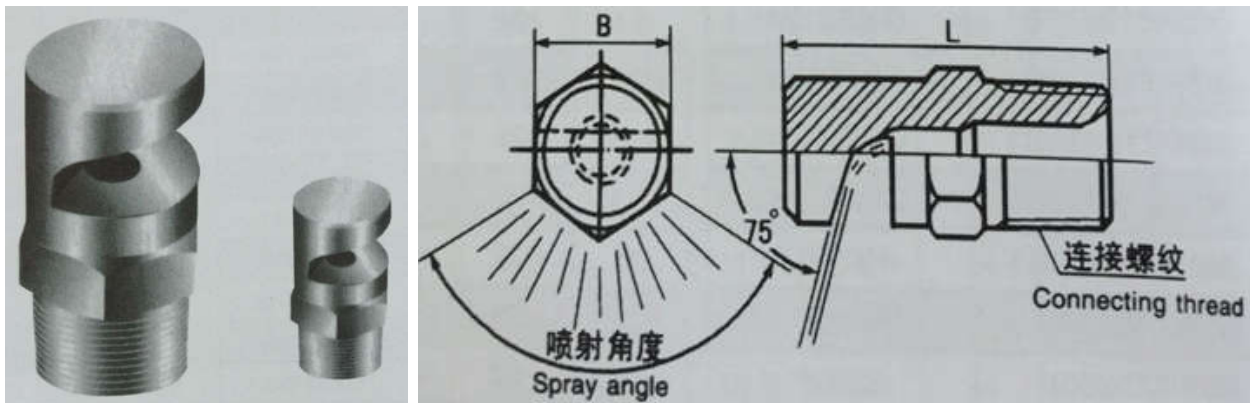
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Spray Feature and Application:

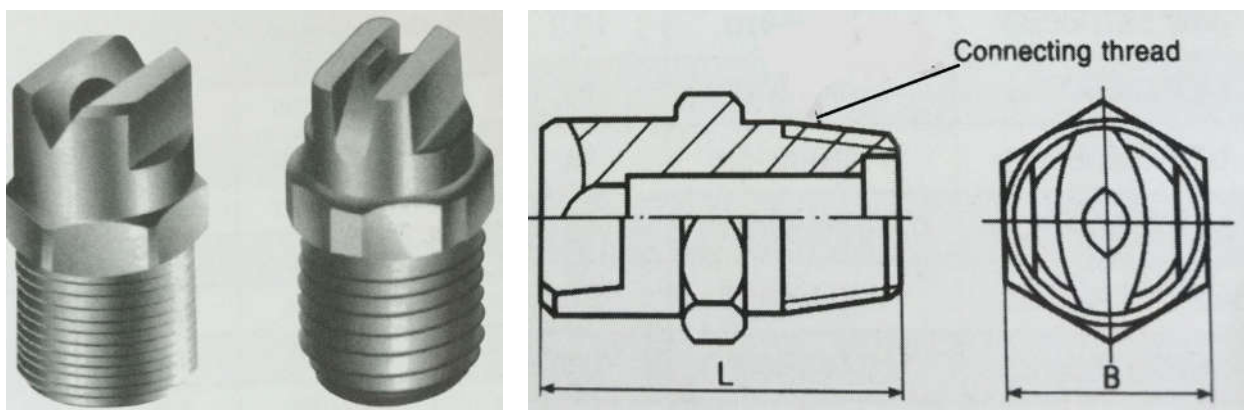
The spray pattern is flat spray at an angle of 75° with the direction of mounting axis of thread. Even under the condition of low pressure and short distance. It can still get a bigger spray angle and spray width. It is mainly use for cooling, cleaning and the cooling of CCM copper mould tubes.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The nozzle is of simple structure and easy to be installed. The spray pattern is fan-shaped. You can select nozzles with different water flows and spray angles to be a spray group according to the requirement of spray area. The nozzle is mainly used for water cooling of continuous casting machines, spraying , cooling tower etc.

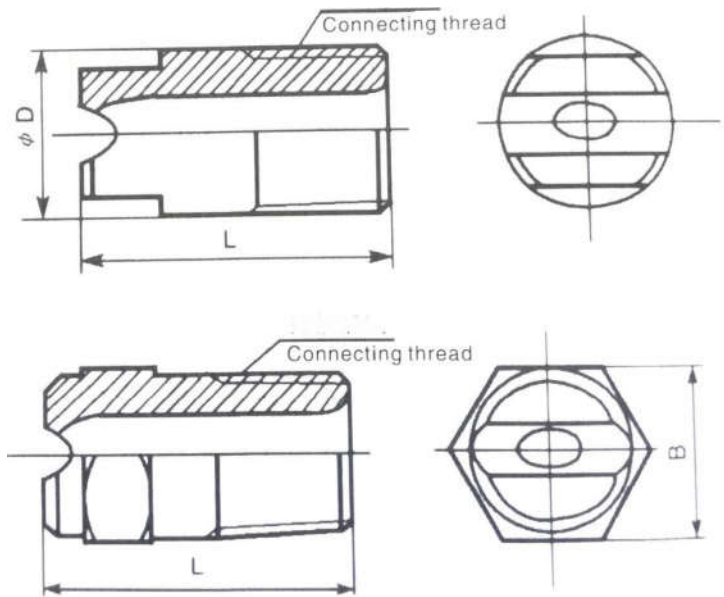
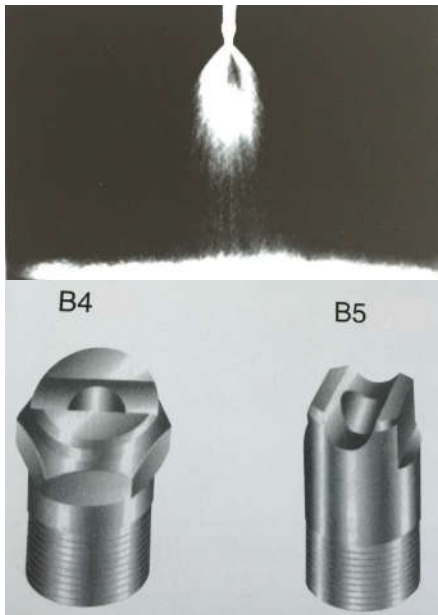


Material: HPb59-1 1Cr18Ni9Ti



Spray Feature and Application:

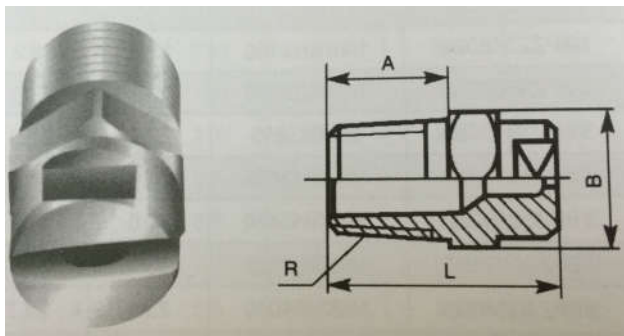
The nozzle has the feature of simple structure and even spray. You can install several nozzles on the header according to the requirement of water-spray area. When the nozzles are arranged evenly, with some cross spray and overlap spray, the whole header would have even spray. It's mainly used for continuous casting machine, blooming mill and various machines that need the cooling of flat spray.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The spray pattern of the nozzle is flat strip type with even atomization and stable performance. It's mainly used for cooling of continuous casting machine, continuous rolling mill, high-speed wire rods, etc. It can be also used for oil spray as lubrication and all other equipments needing to be cooled.



Material: HPb59-1 1Cr18Ni9Ti



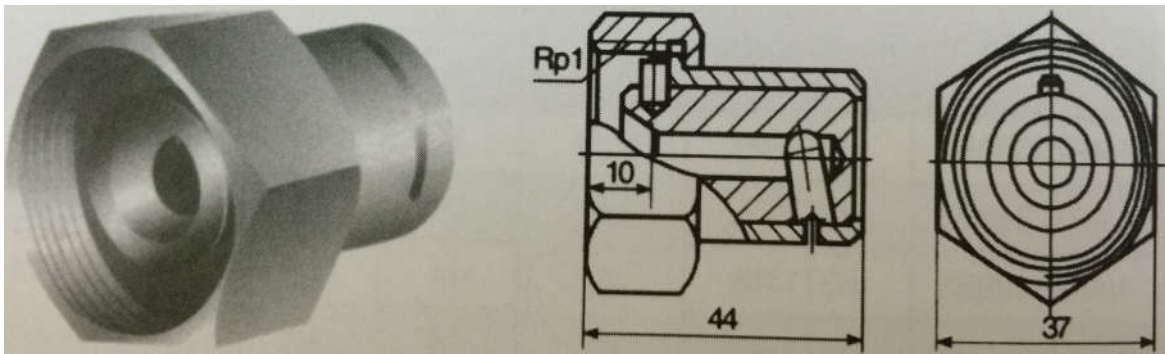
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Spray Feature and Application:

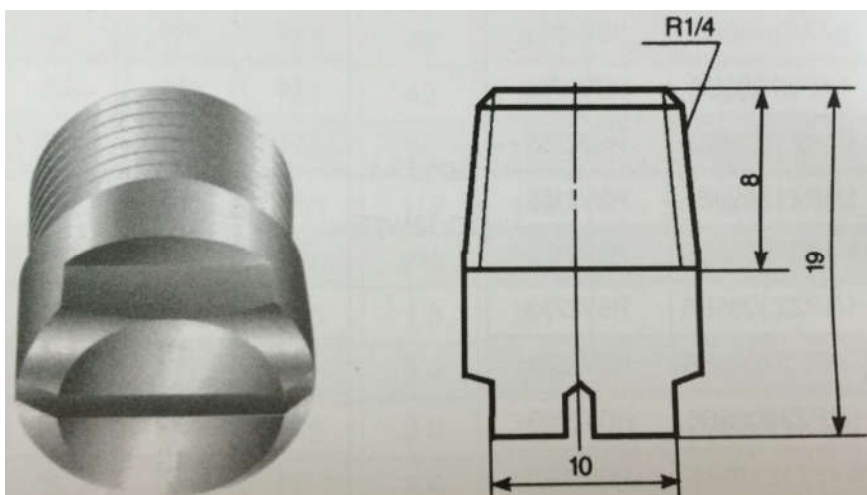
The nozzle is of new structure with even atomization. Its spray pattern is flat, mainly used for the secondary cooling of continuous casting machine and can be also used for the cooling of other engineering.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The nozzle has the feature of simple structure and easy to be installed. Its spray pattern is flat. You can install several nozzles on the header according to the requirement of water-spray area. When the nozzles are arranged evenly, with some cross spray and overlap spray, the castings would have even cooling. It's mainly used for secondary cooling of continuous casting machines for special steel and could also be used for dust-removal as environmental protection, air cleaning, spraying, etc.



Material: HPb59-1 1Cr18Ni9Ti

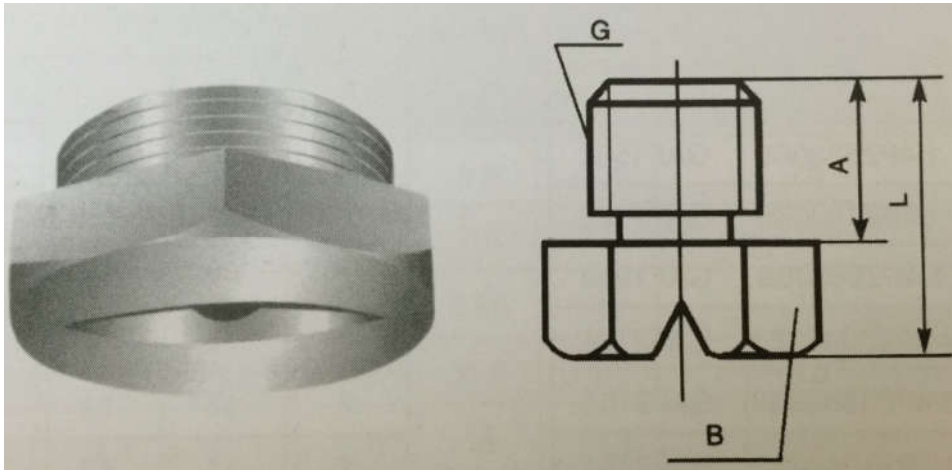
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Spray Feature and Application:

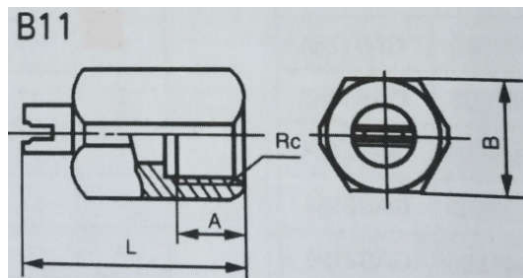
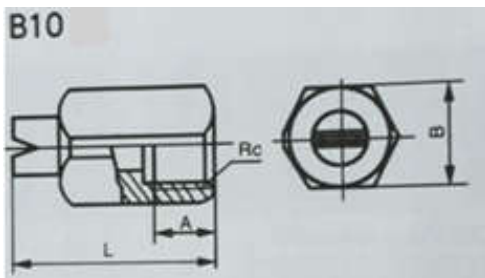
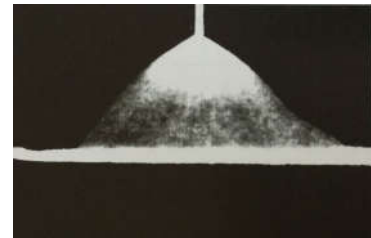
The nozzle has the feature of simple structure and easy to be installed. Its spray pattern is flat strip type. The flow density subsides gradually from the center to edge. When the nozzles arranged evenly, there has the overlapped spray and even atomization would be got.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The nozzle has the feature of compact structure, good technical performance and even atomization. It is mainly used for the secondary cooling of continuous casting machines for large slab and outside cooling of high and low foot-rollers as well as machine cleaning.

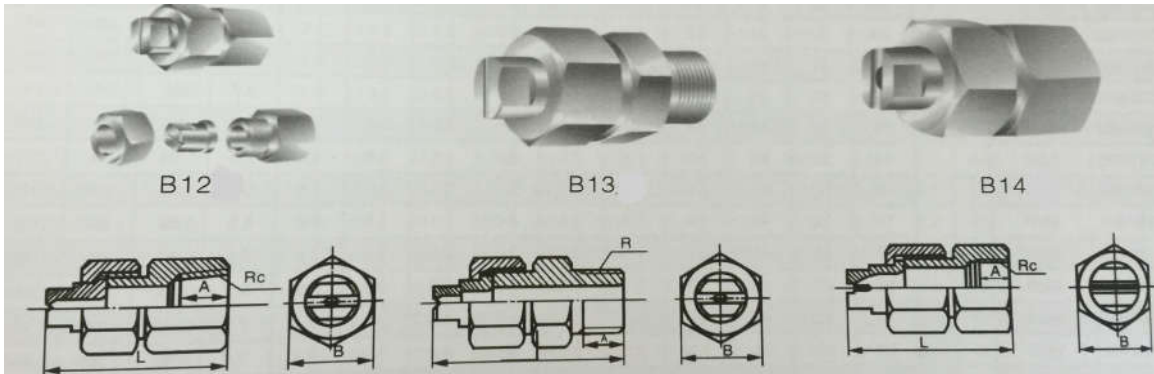
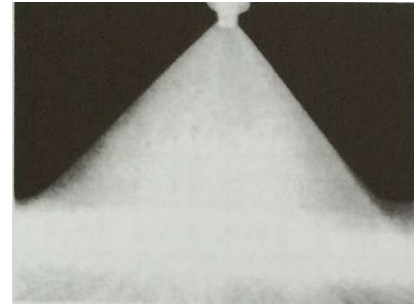


Material: HPb59-1 1Cr18Ni9Ti



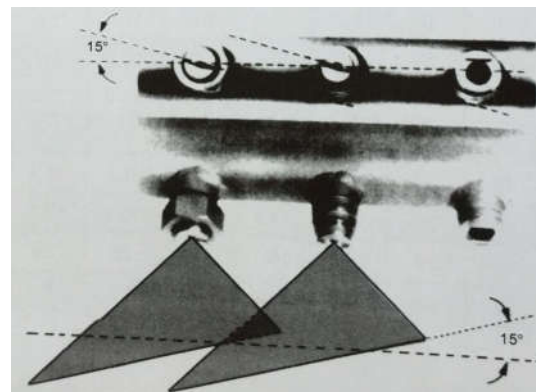
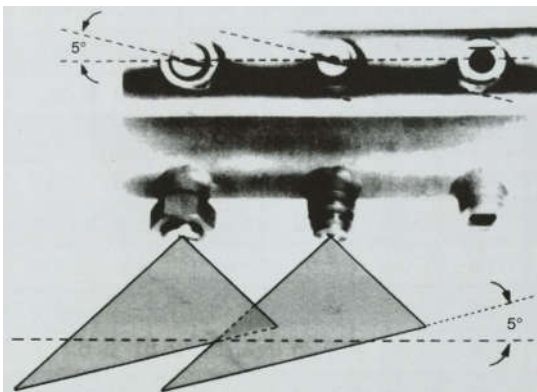
Spray Feature and Application:

The nozzle is of simple structure. Its spray pattern is flat with big spray angle and spray evenly distributed. The flow density subsides gradually from the center to edge. When the nozzles arranged evenly, there has the overlapped spray and even atomization would be got. The nozzle is mainly used for foot roller of slab continuous casting machine, cooling of narrow side of the slab and also can be used for equipments cleaning and cooling.



Spray Feature and Application:

The nozzle is of new structure. There is dovetail at the head of nozzle fixed with nut, so the nozzle can make up a angle with the central line of the pipe. Mounting this type nozzle in the pipe line can get even atomization even the nozzles mounted with different height. Its spray pattern is fan-shaped and the drop distribution is of rectangle parabola. The nozzles matched with air-water atomizing nozzles and full cone nozzles are used for the secondary cooling of extra-low-head slab. The nozzles can also be used for equipment cleaning.





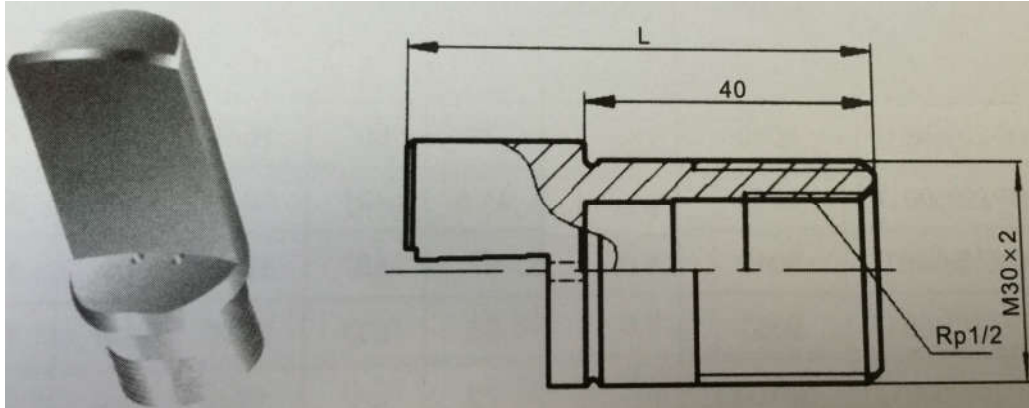
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Spray Feature and Application:

The nozzle is of new structure. The spraying pattern is flat of half round arc with double hole. It is mainly used for cooling of inside guide rail of slab caster and special steel CCM.

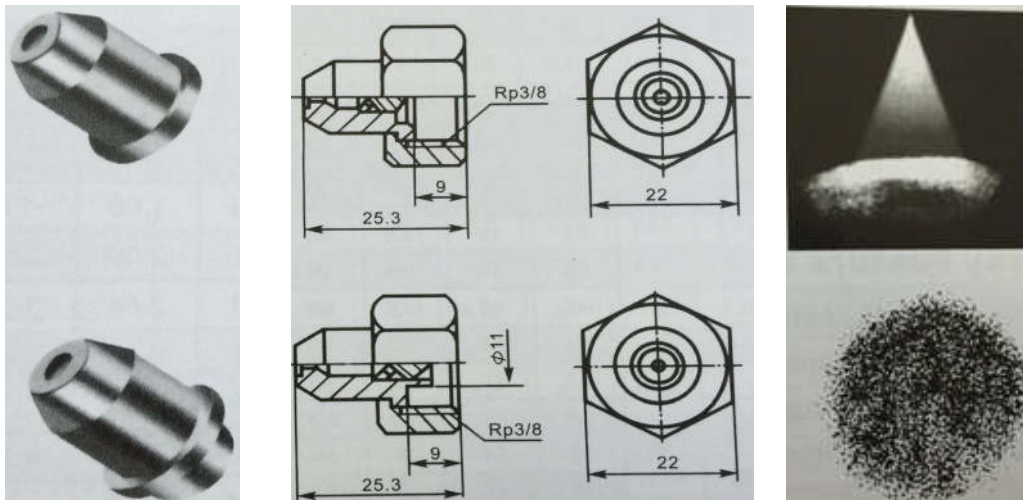


Material: HPb59-1 1Cr18Ni9Ti

Full Cone Nozzle:

Spray Feature and Application:

The nozzle is of new structure and even atomization. Its structure is of stationary spinning core, as a result the performance is stable. It's suitable for the secondary cooling of continuous casting machine for square/round billet and can be also used for sintering ,chemical industry and all equipments needed cooling.



Material: HPb59-1 1Cr18Ni9Ti



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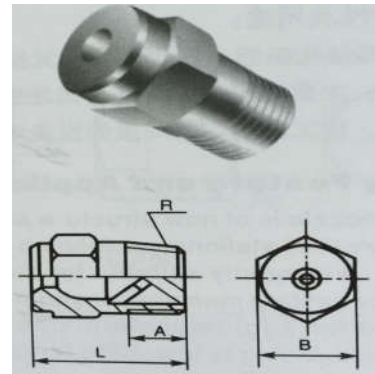
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Spray Feature and Application:

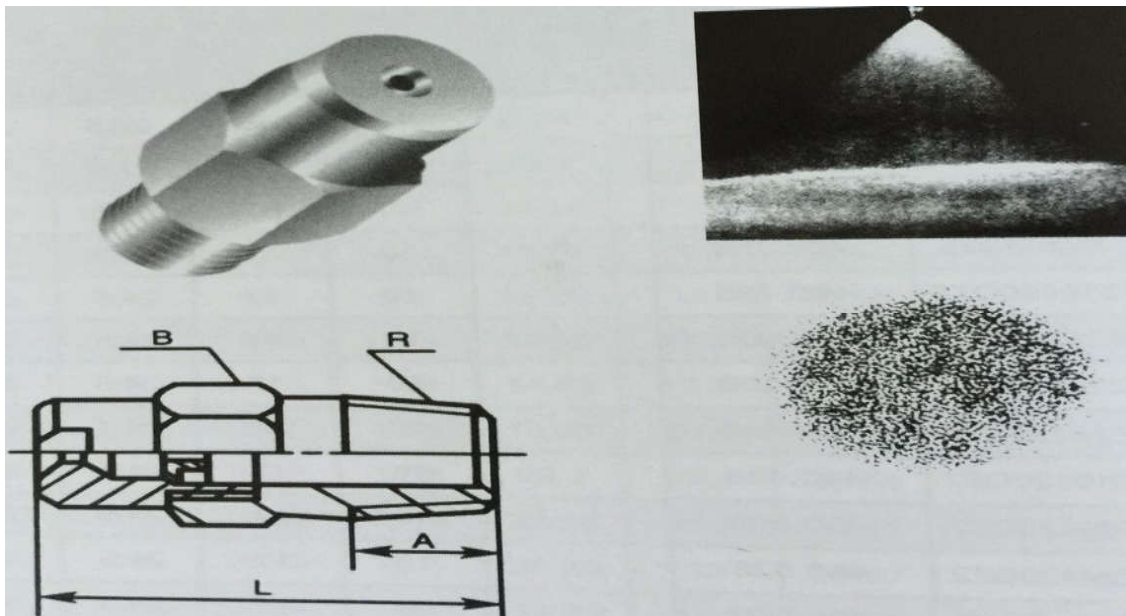
→ The nozzle is of stationary spinning core, its spray pattern is full cone and the spray is distributed. It can be used for the secondary cooling of continuous casting machine and all mechanical equipments needed cleaning.

Material: HPb59-1 1Cr18Ni9Ti



Spray Feature and Application:

The nozzle is of movable spinning core with compact structure, its spray pattern is full cone and the spray is distributed while the performance is stable. It can be used for the secondary cooling of continuous casting machine for special steel. It can also be used for paint spraying, electrical dust removal and other working procedures needed cooling and cleaning.



Material: HPb59-1 1Cr18Ni9Ti



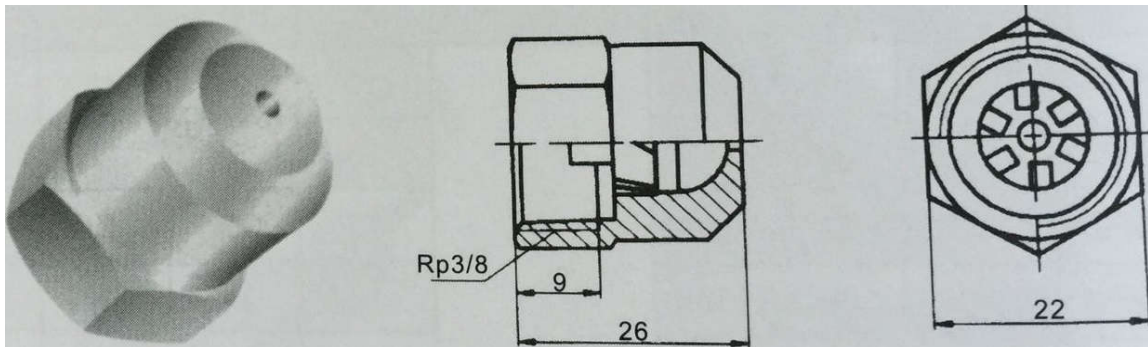
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Spray Feature and Application:

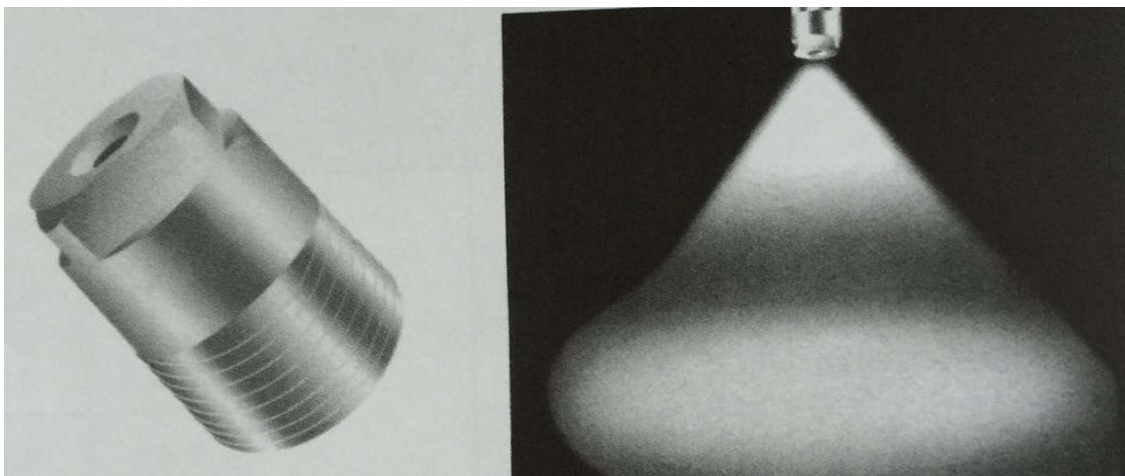
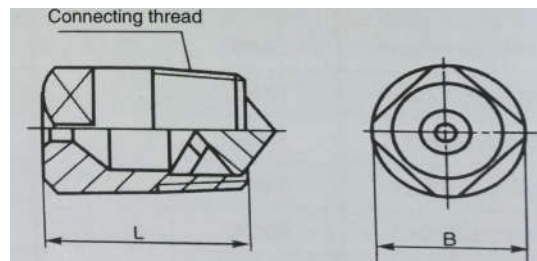
The nozzle is of stationary cyclonic core. The spray pattern is solid cone. It can be used for the secondary cooling of continuous casting machine for boom/billet, slab and special steel. It can also be used for paint spraying, electrical dust removal and other working procedures needed cooling and cleaning.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The nozzles have compact structure. The spray pattern is solid cone with good atomization and easy to be installed. It's mainly used for the secondary cooling of bloom/billet continuous casting machine and can be also used for product cleaning and air cleaning.



Material: HPb59-1 1Cr18Ni9Ti



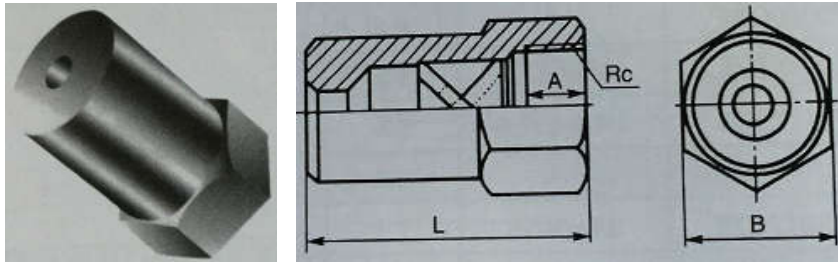
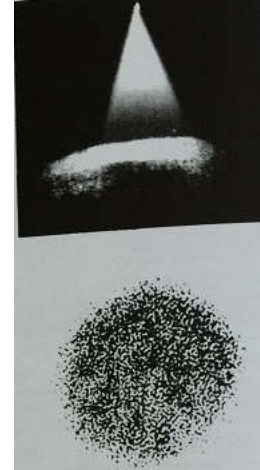
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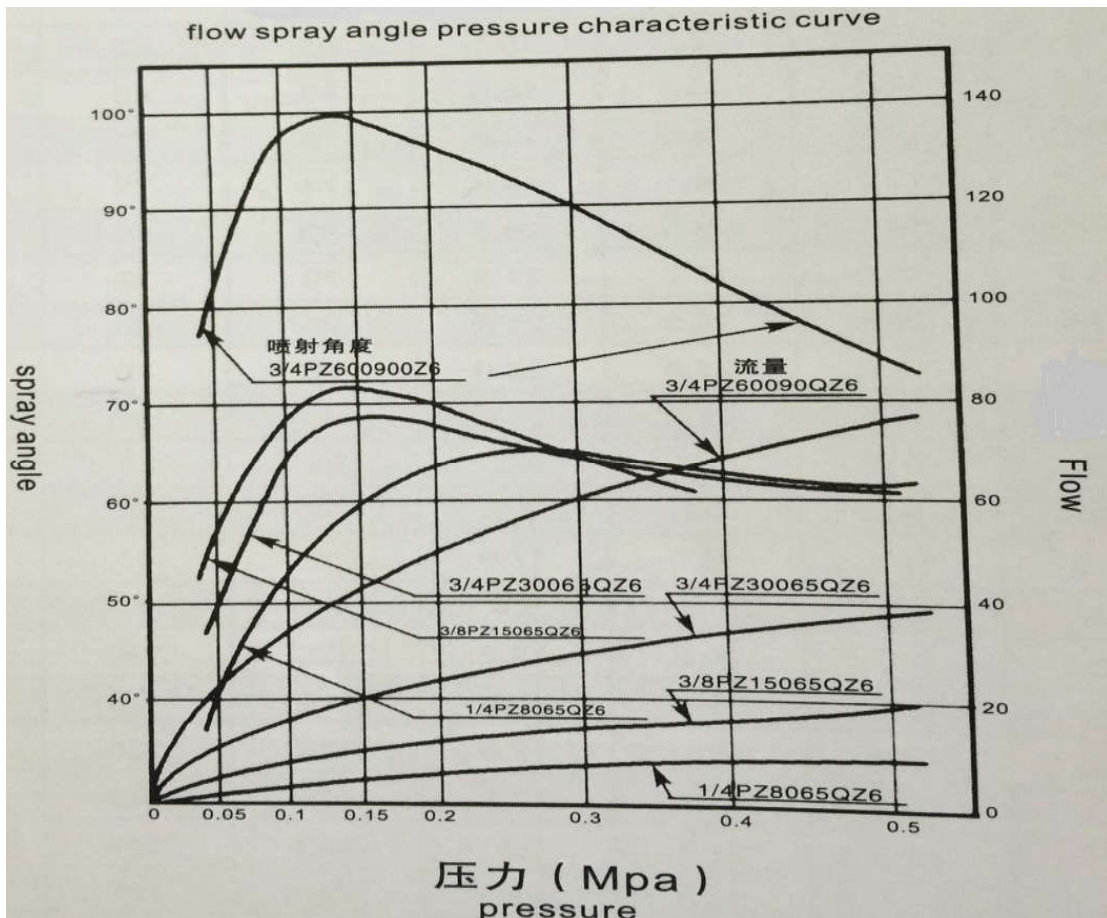
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Spray Feature and Application:

The nozzles have compact structure, even atomization and easy to be installed. Its spray pattern is cone. It's mainly used for the secondary cooling of billet continuous casting machine and can be also used for dust removal, mechanical equipments cooling and air cleaning.



Material: HPb59-1 1Cr18Ni9Ti



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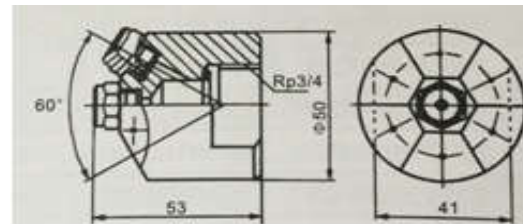
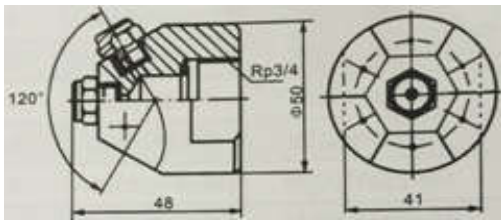
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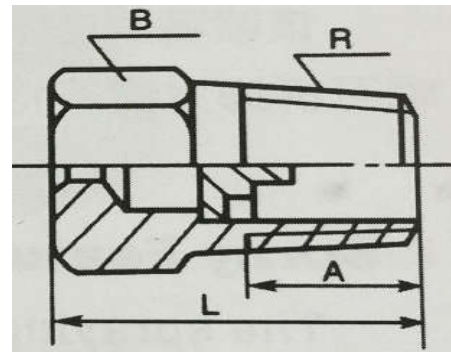
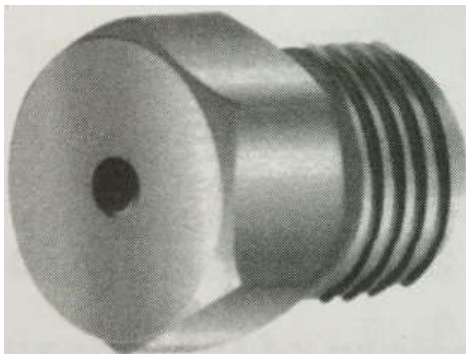
The kind of nozzle has several solid cones. The injection compact structure, even atomization and easy to be installed. Its spray pattern is cone. It's mainly used for the secondary cooling of billet continuous casting machine and can be also used for dust removal, mechanical equipments cooling and air cleaning.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The nozzles have compact structure, easy installation, even spray, etc. Its spray pattern is of stationary spinning core. It's mainly used for the secondary cooling of billet continuous casting machine and can be also used for cooling for other working procedures.



Material: HPb59-1 1Cr18Ni9Ti



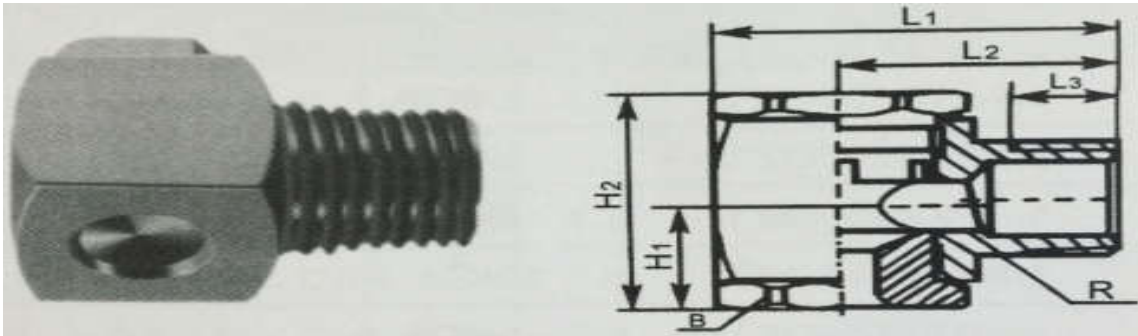
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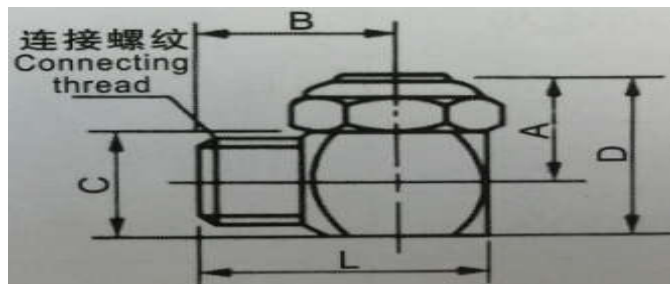
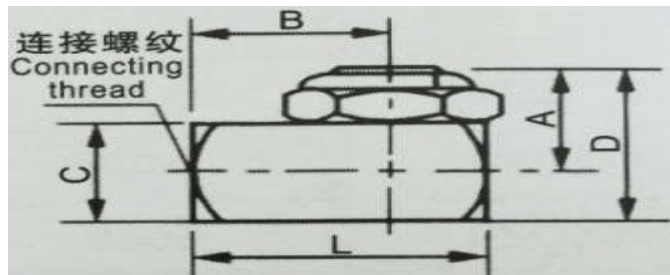
This kind of nozzle has new structure. The spray pattern is solid cone, even atomization. It can be used for the secondary cooling of boom/billet or slab continuous casting machines. It can also be used for paint spraying, electrical dust removal and other equipments needed to be cooled.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The spray pattern is solid cone, even atomization. The atomization make an angle of 90° with the shaft of the nozzle inlet. The spray area presents an even round shape and easy to be dismantled. It's mainly used for dedusting and humidification of steam and air pipes. It can also be used for the secondary cooling of CCM that cast square or round billets.



Material: HPb59-1 1Cr18Ni9Ti

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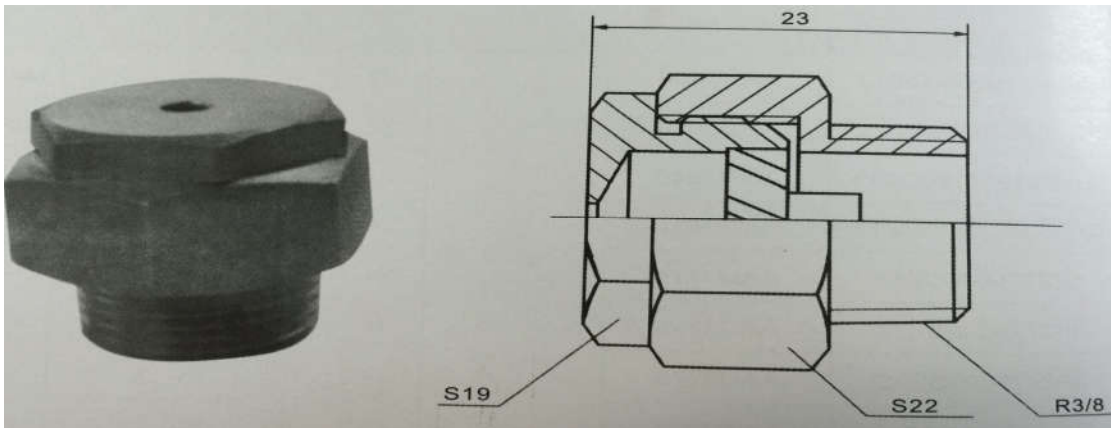
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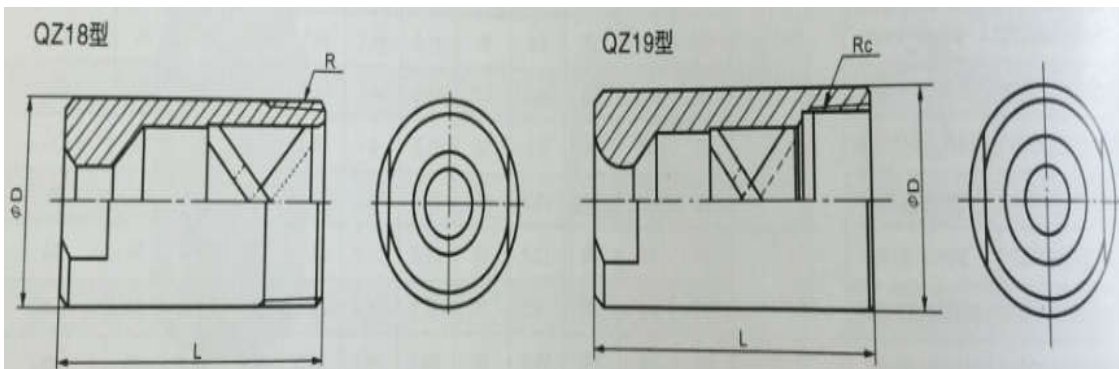
The kind of nozzle has dual-piece type design, easy installation and replacement. The spray pattern is solid cone with even atomization. It's mainly used for the secondary cooling of continuous casting machines, can also be used for other requirements for cooling, humidification and dedusting, etc.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The kind of nozzle has features of simple structure, easy to be installed, big spray angle and the spray pattern is solid cone. It's mainly used for the secondary cooling of continuous casting machines, can also be used for fire-protection and sprinkling.



Material: HPb59-1 1Cr18Ni9Ti



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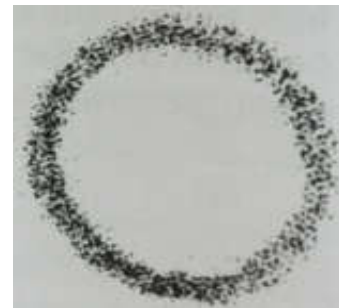
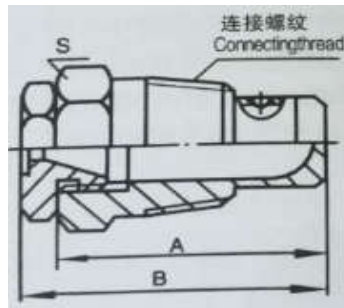
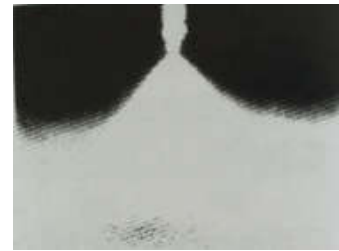
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Hollow Cone Nozzle

Spray Feature and Application:

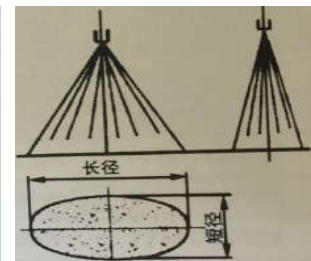
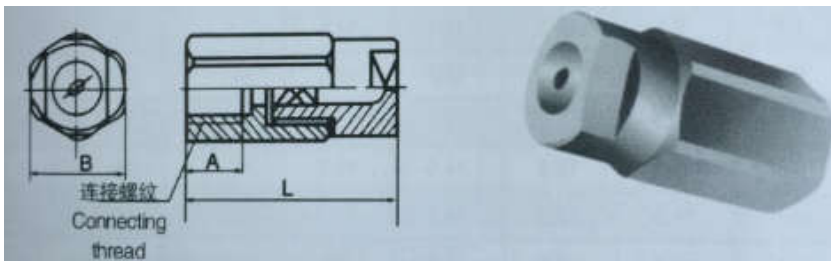
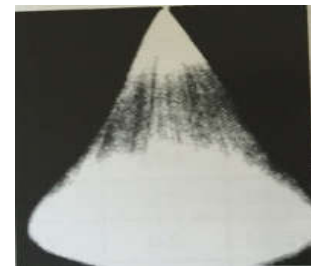
The kind of nozzle has features of simple structure, even atomization and easy operation. It's mainly used for the secondary cooling of billet continuous casting machines, can also be used for air cleaning, cooling water treatment, product decontamination, humidification and sea water spray, etc.



Ellipse Nozzle:

Spray Feature and Application:

The kind of nozzle has new structure. There is a movable spinning core in the body. Its spray pattern is oval. It's ratio of major axis and minor axis is 1.7:1, with even atomization and reliable performance. It's mainly used for the secondary cooling of large slab continuous casting machines, the cooling for foot roller, and wide surface of supporting guide section. It can also be used for cleaning and cooling of equipments.



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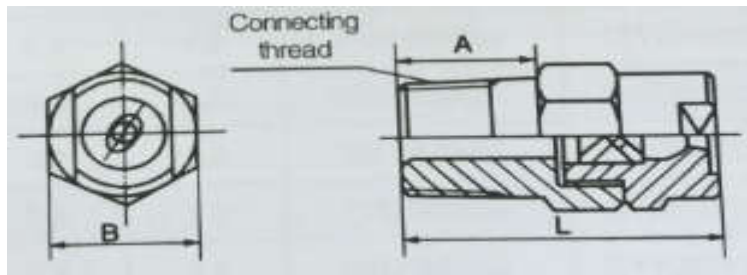
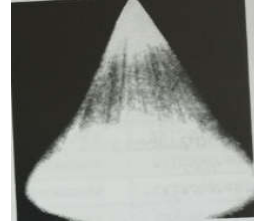
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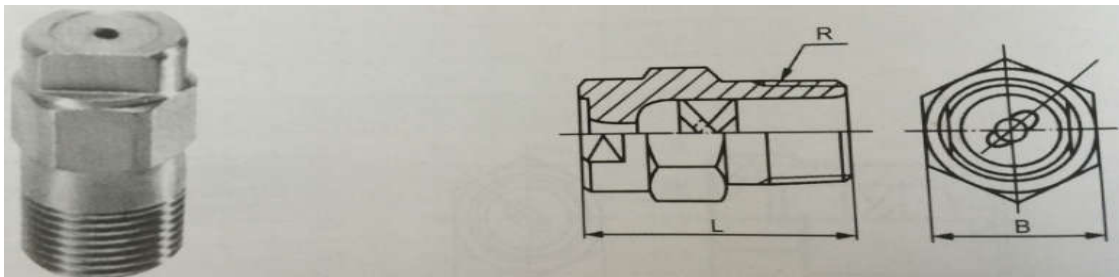
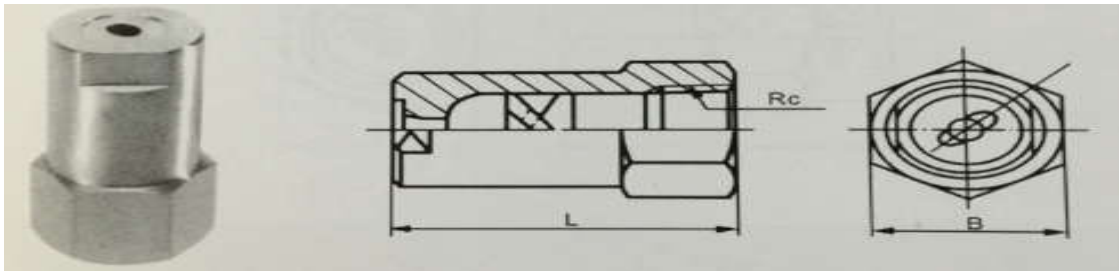
→ The kind of nozzle has compact structure. Its spray pattern is oval. It's ratio of major axis and minor axis is 1.7:1, with even atomization and reliable performance. It's mainly used for the secondary cooling of billet continuous casting machines. It can also be used for dispersing smog in mines, air humidification and other cooling and spray.



Material: HPb59-1 1Cr18Ni9Ti

Spray Feature and Application:

The kind of nozzle has compact structure, its spray pattern is oval. It's ratio of major axis and minor axis is 1.7:1 with even atomization and reliable performance. It's mainly used for the secondary cooling of slab caster, the cooling for foot roller and also be used for cleaning and cooling of equipments.



Material: HPb59-1 1Cr18Ni9Ti



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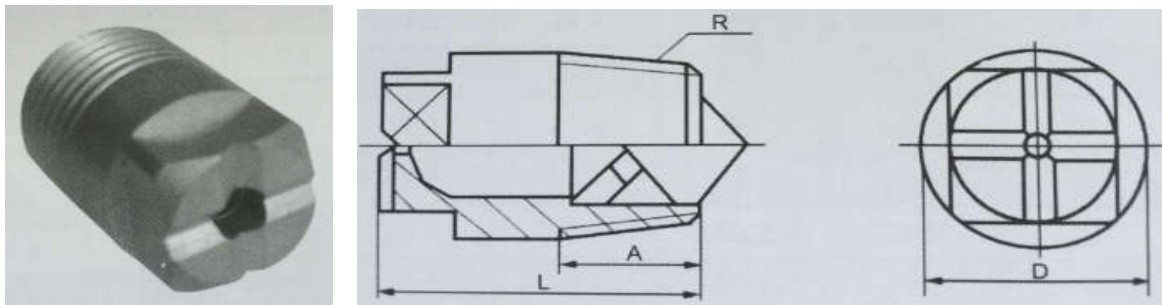
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Square Nozzle:

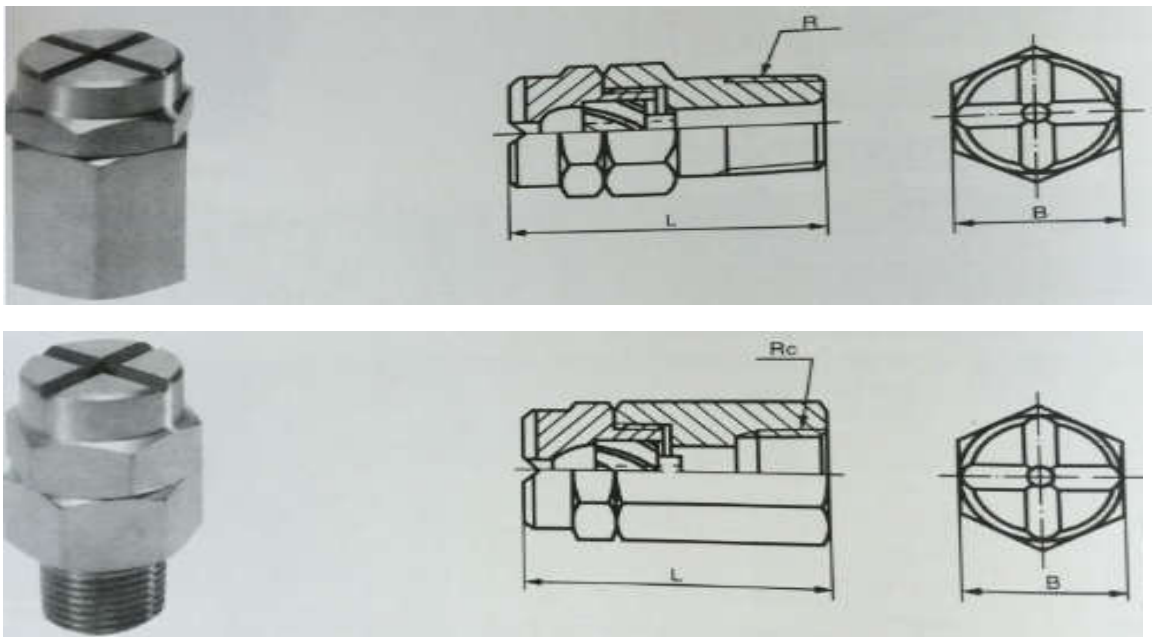
Spray Feature and Application:

→ The kind of nozzle has compact structure, easy to be installed and replaced. It adopts fixed eddy-flow core type, its spray pattern is square which is suitable for secondary cooling of bloom/billet and slab caster. It can also be used for spraying cleaning and cooling for other working procedures.



Spray Feature and Application:

The kind of nozzle has special design, its spray pattern is square which is suitable for secondary cooling of bloom/billet and slab caster. It can also be used for cleaning and cooling for other equipments.



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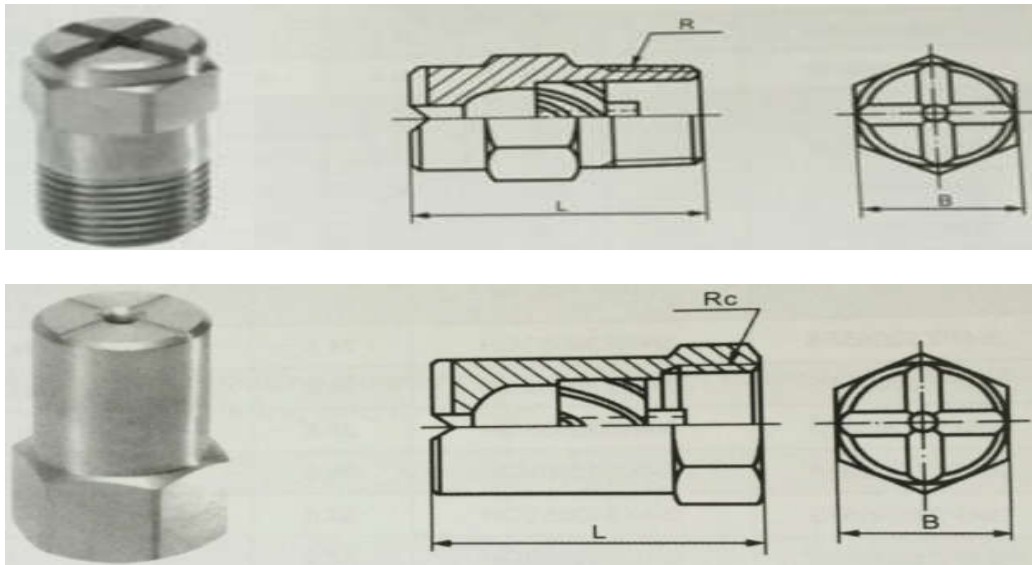
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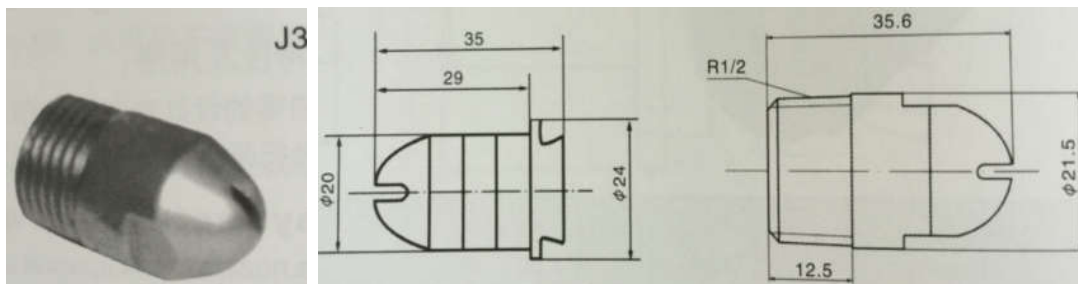
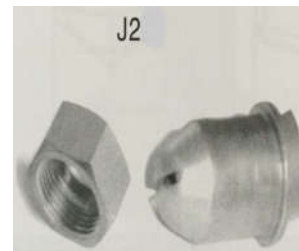
Spray Feature and Application:

The kind of nozzle is one-piece designed, easy to be installed and replaced. Its spray pattern is square, the performance is steady which is suitable for secondary cooling of billet caster. It can also be used for cleaning and cooling for other purposes.



Spray Feature and Application:

The head of J2 model nozzle adopts coattail location and nut fixation, which can form certain angle between nozzle and center line of pipe. The J3 model adopts screwed connection, whose atomizing shape is square, the sprinkling ability would be strengthened when pressure is increased still with even water-distribution. It's mainly used for secondary cooling of thin-slab high speed continuous casting as well as secondary cooling of other continuous casting machines.





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Rectangle Nozzle

Spray Feature and Application:

→ This kind of nozzle has novel design and special appearance. Its spray pattern is rectangular with even atomization. It's mainly used for secondary cooling for continuous casting machines as well as other occasions requiring cooling.

