

Hydraulic Even Flat Spray Nozzles with Large Turndown* Ratio VVEP-HL series

VVEP-HL series:

- Maintains even distribution while minimizing variation in spray angle even when spray pressure is changed.
- ♦ Effective particularly for small spray flow control at low pressures.

Having a large turndown ratio of spray flow-rate, VVEP-HL series is optimal for applications where spray capacity needs to be changed depending on the spray target and applications.

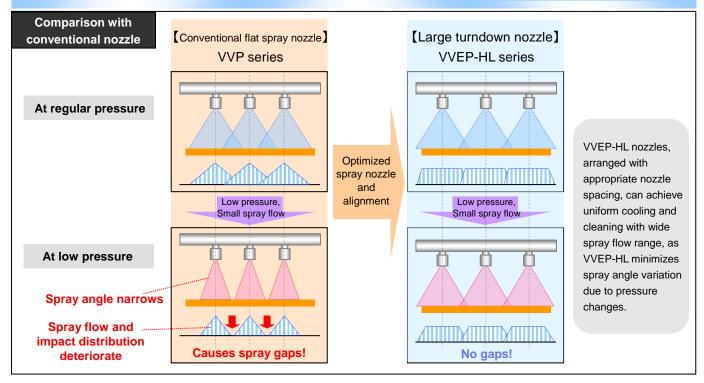
*Spray flow-rate adjustable range



Applications

- ■Cooling:
 Steel plate, cast steel, cast metal, extruded aluminum
- ■Cleaning:
 Steel plate cleaning after pickling
- ■Applications which require a large turndown ratio

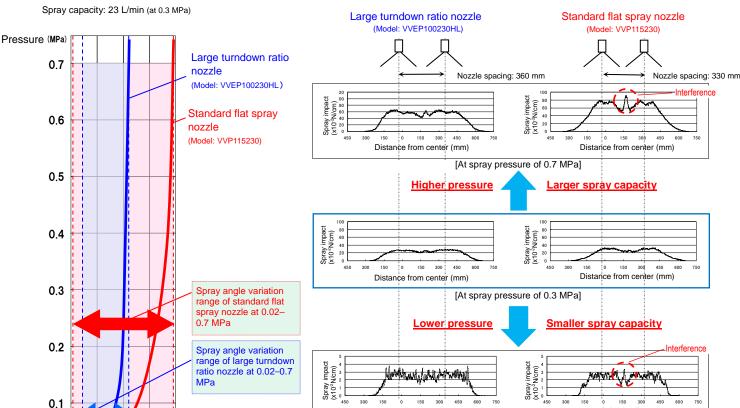
Ideal for hydraulic spray cooling which requires changing of spray capacity, especially for upper zone and under molding of continuous casting machines, and for control cooling.



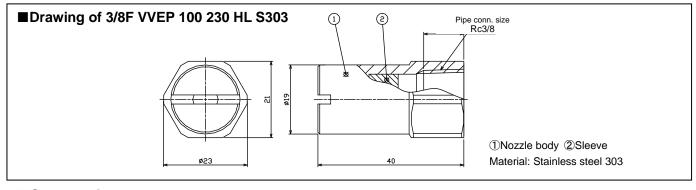
[Relation of pressure and spray angle]

[Interference in spray impact due to pressure changes]

[At spray pressure of 0.02 MPa]



Distance from center (mm)



■Spray performance

80 90

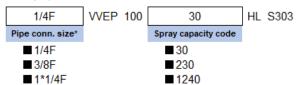
100 110

Spray angle (')

Pipe conn. size	Spray capacity code	Spray capacity (L/min)					Free passage
		0.02 MPa	0.1 MPa	0.3 MPa	0.5 MPa	0.7 MPa	diameter (mm)
Rc1/4	30	0.9	1.8	3	3.9	4.5	0.9
Rc3/8	230	6.5	13	23	30	36	2.3
Rc1*1/4	1240	35	72	124	158	185	5.4

How to order Please inquire or order for a specific nozzle using this coding system.

Example) 1/4F VVEP 10030 HL S303



*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard).

Distance from center (mm)

If you need a custom-made nozzle, please inform us of detailed specifications including 1) spray flow range you desire, 2) your current nozzle arrangement, and 3) spray height.

Headquarters



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