

Hydraulic & Pneumatic

For both use spray nozzle!!

Thick flat spray nozzle DDR series

DDR series is Hydraulic spray nozzle, also available as Pneumatic spray nozzle.

Due to thick flat spray pattern, DDR realizes high cooling effect and water saving at the same time. Turn down ratio is wide as 1:20. (Max water pressure at 0.9MPa)

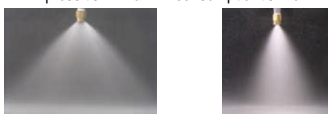


Applications

- Cooling:
Cast plate, Aluminum diecasting
- Cleaning:
Plate after acid pickling
- Other:
For applications that needs wide turn down ratio spray.

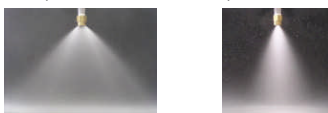
Large volume spray

Water press.:0.9MPa Flow:20L/min
Air press.:0.1MPa Air consumption:0NL/min



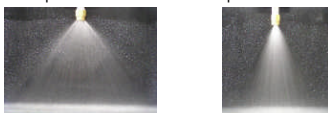
Middle volume spray

Water press.:0.3MPa Flow:3.4L/min
Air press.:0.1MPa Air consumption:0NL/min



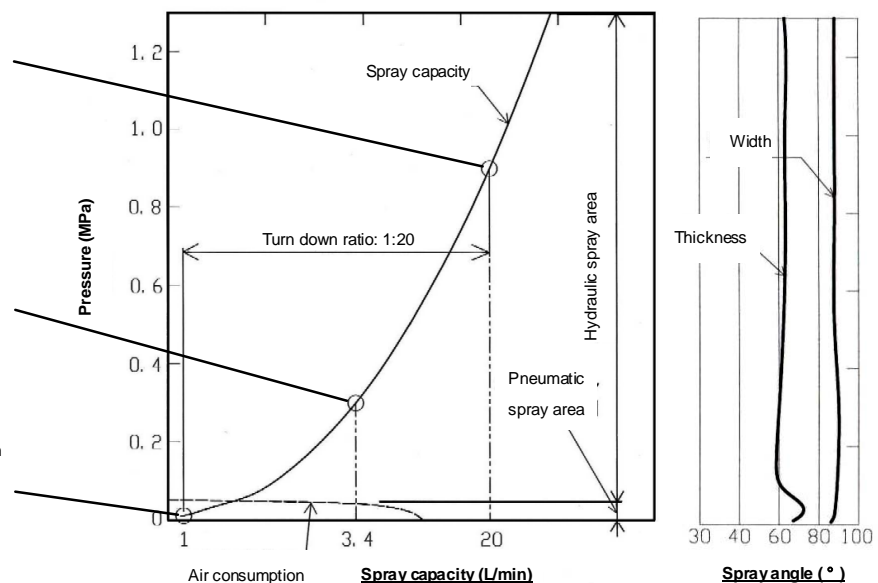
Small volume spray

Water press.:0.06MPa Flow:1L/min
Air press.:0.1MPa Air consumption:130NL/min

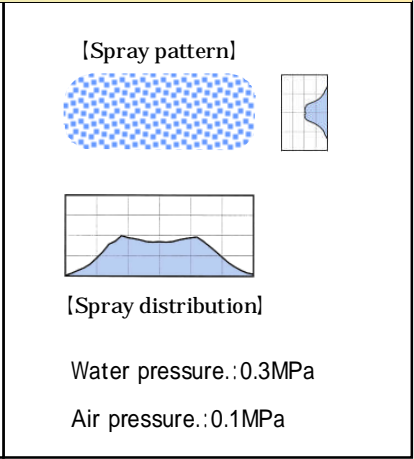
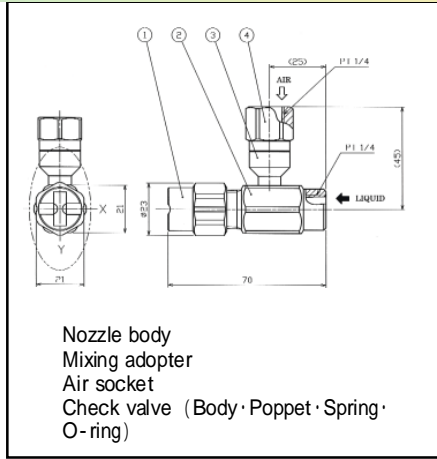


Width

Flow rate diagram



Specification



Material · Structure

Material : Stainless steel 303, O-ring(NBR)
 Structure : Supply water and compressed air at 0.1MPa.
 Check valve open when water pressure reduced to 0.05MPa and start pneumatic spray automatically.

Features

- Thick flat even distribution spray pattern.
- High spray impact with large spray area.
- **Available for both; Hydraulic spray and Pneumatic spray nozzle.**
- Keep same spray angle and fine pattern even at small volume spray by air.
- Wide range of turn down ratio.

Pipe Conn. Size	Spray angle code		Spray Capacity Code	Spray angle Width (°)				Spray angle thickness (°)				Spray capacity Qw(L/min) / Air consumption Qa(Nl/min) at Water press. Pw(MPa), Air press(0.1MPa)										
	Width	Thickness		0.01 MPa	0.1 MPa	0.3 MPa	1 MPa	0.01 MPa	0.1 MPa	0.3 MPa	1 MPa	0.01 MPa	0.02 MPa	0.03 MPa	0.05 MPa	0.07 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa	
3/8	115°	60°	200	110	113	115	116	65	58	60	60	Qw	1.55	2.93	4.26	6.81	9.29	10.9	13.4	15.5	19	24.5
			260	110	113	115	116	65	58	60	60	Qa	29	25	19	2	-	-	-	-	-	-
	90°	60°	200	86	89	90	90	65	58	60	60	Qw	1.55	2.93	4.26	6.81	9.29	10.9	13.4	15.5	19	24.5
			260	86	89	90	90	65	58	60	60	Qa	29	25	19	2	-	-	-	-	-	-

Pipe Conn. size	Spray angle code		Spray Capacity Code	Mean Drop Dia. (μ)	Free pass. dia(mm)			Mass (g)
	Width	Thickness			Nozzle	Water	Air	
3/8	115°	60°	200	430	2.9	6.7	1.8	190
			260	463	3.3	7.6	2.0	
	90°	60°	200	455	2.9	6.7	1.8	
			260	488	3.4	7.6	2.0	

How to order

Please inquire or order for a specific nozzle on this coding system.

Exam. 3/8 DDR 115 60 200 S303

3/8	DDR	115	60	200	S303
Spray angle code (width)	Spray angle code (thickness)	Spray capacity code	Material code		
115	-	200	-		
90	-	·	-		
		260			



"The Mist Engineers"

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