

Nozzle Joints / Two-Fluid Nozzles

Spray Nozzles

Nozzle Joint

Type	Material	Max. Operating Pressure
Male, Female Ends NJMS	EN 1.4305 Equiv.	1.0MPa
Female, Female Ends NJFS	PP Resin	
NJMP		

Features
Swivel joints suitable for blows to anywhere. By loosening a cap and then, tightening the joint by moving the ball, the joint can be fixed at an arbitrary position. Angle adjustable range is 50°.

Male, Female Ends NJMS

Female, Female Ends NJFS

NJMP

Example
For NJMP, products can be used in connected stacks.

RoHS10

Part Number Type	No.	R/Rc (PT)		(L)	d (Hole Dia.)	Wrench Flats H	Weight (g)	Unit Price (1-4 pcs)	Volume Discount Rate 5-10
		T1	T2						
Male, Female Ends NJMS	1-1	1/8	1/8	32	5.5	22	80		
	1-2	1/8	1/4	36	8	22	90		
	2-2	1/4	1/4	41	8	29	170		
	2-3	1/4	3/8	43	11	29	190		
3-3	3/8	3/8	49	11	35	290			

Part Number Type	No.	R/Rc (PT)		L	Unit Price (1-4 pcs)	Volume Discount Rate 5-9	10-19	20-30
		T1	T2					
Male, Female Ends NJMP	1-1	1/8	1/8	34.5				
	1-2	1/8	1/4					
	2-2	1/4	1/4					

For orders larger than indicated quantity, please check with WOS.

Two-Fluid Nozzle WANR

Features
Able to spray fine mists by mixing fluid and air at the same time. (Produces finer particles than the Spray Nozzles on P1476 ~ 1477.)
Compact, lightweight and useable in small space.
Fluid or air flow rate becomes adjustable by adjusting pressure.
Particle diameter gets finer as air percentage (air-water volume ratio) gets higher.

Applications
Humidification, cooling, spray of chemical solution, etc.

Ordering Example
Part Number **WANR0.5**

Air Pressure (MPa)	Water Qty. (m ² /min) / Air Qty. (l/min (ANR)) at Water Pressure below (MPa)								Spray Width (mm) at Water Pressure (MPa) below (Spray Distance 500mm)		
	0.2		0.3		0.4		0.5		0.2	0.3	0.4
	Water Qty.	Air Qty.	Water Qty.	Air Qty.	Water Qty.	Air Qty.	Water Qty.	Air Qty.			
0.1	182	28	228	27	258	26	284	25	800	900	900
0.2	146	47	200	45	248	43	280	41	800	800	900
0.3	102	65	168	63	222	61	259	59	700	800	900
0.4	58	83	127	82	189	80	232	78	600	800	900
0.5	-	-	92	97	158	96	207	95	-	800	900

Spray Photo

Spray Width W (mm)

Principle of Operation
Fluid and air are mixed in the nozzle.

Component Details

NZRFS

Spray Shape: Fan-shaped

Ordering Example
Part Number **NZRFS1 - 1.0**

NZRVS / NZRVFU

Spray Shape: Fan-shaped

NZRVS (Wide Angle Type)
NZRVFU (Narrow Angle Type)

Ordering Example
Part Number **NZRVS1 - 2.0**

NZRT

Spray Shape: Annular Shape

Ordering Example
Part Number **NZRT2 - 0.5**

NZRK

Spray Shape: Annular Shape

Ordering Example
Part Number **NZRK2 - 1.0**

Part Number Type	No.	d (Hole Dia.)	T	L	L1	L2	H	H2	B1	B2	Weight (g)	Unit Price (1-4 pcs)	Volume Discount Rate 5-20
	1.6												
	2.0												
	2.5												
	3.2												
	4.0												
2	1	R1/4	32.0	14.0	10.0	6.0	2.0	14.0	16.0	27.0			

NZRFS Specifications

Size Hole Dia. (mm)	1.0	1.2	1.6	2.0	2.5
Water Pressure (MPa)	0.05	0.1	0.2	0.05	0.1
Water Qty. (l/min)	0.36	0.60	0.86	0.64	0.89
Spray Angle (°)	65	90	110	80	100

Part Number Type	No.	d (Hole Dia.)	T	L	L1	L2	H	B1	B2	Weight (g)	Unit Price (1-4 pcs)	Volume Discount Rate 5-20
	2.5											
	3.2											
	3.6											
	4.0											
	5.0											
2	1	R1/4	22	6	10	6	14	16	20			

NZRVS Specifications

Size Hole Dia. (mm)	2.0	2.5	3.2	3.6	4.0
Water Pressure (MPa)	0.1	0.3	0.5	0.1	0.3
Water Qty. (l/min)	1.12	1.92	2.49	1.38	2.37
Spray Angle (°)	50	65	70	55	60

NZRVFU Specifications

Size Hole Dia. (mm)	4.0	5.0	6.4	7.0
Water Pressure (MPa)	0.1	0.3	0.5	0.1
Water Qty. (l/min)	3.37	5.79	7.43	4.89
Spray Angle (°)	50	60	70	60

Part Number Type	No.	d (Hole Dia.)	T	Weight (g)	Unit Price (1-4 pcs)	Volume Discount Rate 5-20
	0.7					
	1.0					

NZRT Specifications

Size Hole Dia. (mm)	0.5	0.7	1.0
Water Pressure (MPa)	0.2	0.3	0.4
Water Qty. (l/min)	0.11	0.13	0.15
Spray Angle (°)	60	60	65

Part Number Type	No.	d (Hole Dia.)	T	Weight (g)	Unit Price (1-4 pcs)	Volume Discount Rate 5-20
	1.6					
	2.0					
	2.4					

NZRK Specifications

Size Hole Dia. (mm)	1.0	1.6	2.0
Water Pressure (MPa)	0.1	0.2	0.3
Water Qty. (l/min)	0.38	0.50	0.60
Spray Angle (°)	70	75	80

Part Number Type	No.	d (Hole Dia.)	T	Weight (g)	Unit Price (1-4 pcs)	Volume Discount Rate 5-20
	3.2					
	4.0					
	5.0					
	6.4					
	7.0					

Ordering Example
Part Number **NZRFS1 - 1.0**