

Spray Nozzles

Adjustable Hoses - Overview

Spray Shape: Full-Circular Shape

NZRCs

Inner Piece

Spray Angle

Material: EN 1.4301 Equiv.

Part Number	d (Hole Dia.)	T	S	L	L1	L2	L3	H	H1	B	B1	B2	B3	Weight (g)	Unit Price	Volume Discount Rate
NZRCs	1	1.6	R1/8	05	23.5	3	1	8.5	6	5	12	13.8	14.0			
		2.0														
	2	2.0	R1/4	08	32	6	2	10	8	6	14	16	17	19.5	29.0	
		2.4														
		2.6														

NZRCs Specifications

Size	Hole Dia. (mm)	Water Pressure (MPa)	Water Qty. (L/min)	Spray Angle (°)
1/8	1.6	0.05	0.10	0.20
	2.0	0.30	0.50	0.05
	2.4	0.20	0.30	0.50
1/4	2.0	0.05	0.10	0.20
	2.4	0.30	0.50	0.05
	2.6	0.20	0.30	0.50

Spray Shape: Rod Shape

NZRS

Inner Piece

Spray Angle

Material: EN 1.4301 Equiv.

Part Number	d (Hole Dia.)	T	L	L1	L2	B1	B2	Weight (g)	Unit Price	Volume Discount Rate
NZRS	1	0.5	R1/8	18	10	8	12	13.8	12	
		0.7								
		1.0								
		1.2								
		1.6								
2	1.6	R1/4	20	10	10	14	16	17		
	2.0									
	2.5									
	3.0									
	3.6									

Features: The impact changes as water flow jets rod-like due to water pressure.
Applications: Pinpoint Washing, Air Blow, etc.
Note: Hole with small diameter may clog.

NZRS Specifications

Size	Hole Dia. (mm)	0.5	0.7	1.0	1.2	1.6
1/8	Water Pressure (MPa)	0.2	0.3	0.5	0.7	0.2
	Water Qty. (L/min)	0.14	0.18	0.22	0.26	0.31
1/4	Water Pressure (MPa)	0.2	0.3	0.5	0.7	0.2
	Water Qty. (L/min)	2.31	2.82	3.30	3.88	3.57

Spray Angle Adjustable

Rod Shape: Angle 0° Full-circular Shape: Angle 30° Full-circular Shape: Angle 60°

Spray Photo

Material: EN 1.4301 Equiv.

Part Number	d (Hole Dia.)	T	Weight (g)	Unit Price	Volume Discount Rate
NZRAJ 1	1.5	R1/8	50		
	2.0				

Features: Nozzle with spray angle adjustable within range of 0 ~ 60°. This product allows for angle adjustment on site, and thus, facilitates action taken to respond to workpiece change. It is possible to adjust the spray angle without using tools.

Ordering Example

Part Number	d
NZRCs1	1.6
NZRS2	1.6
NZRAJ1	1.5

NZRAJ

Spray Angle Widened

Spray Angle Narrowed

Adjustable Angle 0 ~ 60° (See the spray photo.)
 Material: EN 1.4301 Equiv.

Hole Dia. (mm)	0.05	0.1	0.2	0.3	0.5
Water Pressure (MPa)	0	30	60	0	30
Angle (°)	0	30	60	0	30
Water Qty. (L/min)	0.94	0.90	0.83	1.27	1.25

Example

Features: Flexible hose can be bent at any angle and easily fits workpieces. Lightweight, nonconductive, chemical resistant, shock resistant, and heat resistant resin material (Polyacetal).
Applications: Application of coolant/lubricant liquid or lubricant application for metal processing machines. For air blow when positioning is cumbersome.

Combinations

Three Types of Fittings

Three Types of Hoses

Five Types of Nozzles

Material: Acetaldehyde Polyester
 Heat Resistance Temp.: 80 deg.

For selection of products, see P.1479.

Chemical Resistance

Chemical	A / NA
Solvent	○
Lubricant	○
Water	○
Acid	×
Alkali	×

Pressure Resistance

No.	Fluid	Air
2	0.2	0.5
3		
4		

Min. Bending Radius

No.	Radius
No.2	35mm
No.3	45mm
No.4	45mm

Dimension Details

Nozzle

Shape A (A1, A2, A3)

Shape A

Hose Nominal	A1			A2			A3			
	C	D	d1	d2	d3	C	D	d1	d2	d3
2	30.0	16.0	1.6	4.9	7.0	30.0	19.0	16.0	3.2	6.3
3	33.0	19.0	21.0	6.3	9.5	33.0	28.0	21.0	9.5	13.0
4	37.5	24.5	24.5	6.6	10.5	37.5	37.5	24.5	9.5	15.5

Shape B (B1, B2, B3)

Shape B

Hose Nominal	B1			B2			B3			
	C	C1	D	d1	d2	C	C1	D	d1	d2
2	24.5	12.0	16.0	1.8	4.1	25.5	12.0	16.0	3.2	5.6
4	36.0	20.0	24.5	6.8	9.5	37.0	18.0	24.5	9.5	12.4

Shape C (C1, C2)

Shape C

Hose Nominal	C1		C2	
	d1	F1	d1	F1
2	1.0	41.0	1.5	41.0

Shape D (D1)

Shape D

Hose Nominal	D1					
	C	D	d1	d2	d3	d4
2	26.4	16	3.2	1.7	25.4	26.8
3	39	21	5	3	32	34
4	50.5	25	6	4.5	44.5	48

Shape M (M1, M2)

Shape M

Hose Nominal	M1				M2					
	A	L	(H)	T	Rc (PT)	A	L	(H)	T	Rc (PT)
2	18.5	21	14	14	Rc1/8	22.5	25	17	10	Rc1/4

Shape of M2 is changed.

Hose Only

Hose (For All Types)

Hose Nominal	Hose I.D.	D	B	L1
2	6.3	16	14.5	20.7
3	9.5	21	17	25
4	12.7	24.5	20.3	30

Connector Only

Male Threaded

Shape AJ (Male Threaded)

Hose Nominal	R (PT)	A	L	H	T
2	1(R1/8)	23	26.3	14	7
3	3(R3/8)	27.3	32	19	8
4	4(R1/2)	28	38.3	18.8	7.5

Male Valve

Shape VA (Male Valve)

Hose Nominal	R (PT)	A	L	H	W
2	R1/4	41	44	30	27
3	R3/8	45	49	34	25
4	R1/2	48.5	58	43	34

Female Valve

Shape VAF (Female Valve)

Hose Nominal	Rc (PT)	A	L	H	W
2	Rc1/4	42	45	30	27
4	Rc1/2	58.2	64	63	34