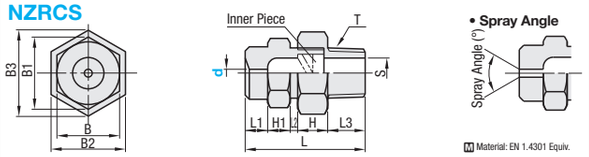
Spray Nozzles

Spray Shape: Full-Circular Shape

NZRCS



Material: EN 1.4301 Equiv.

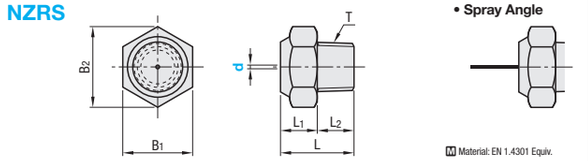
Part Number Type	No.	d (Hole Dia.)	T	S	L	L1	L2	L3	H	H1	B	B1	B2	B3	Weight (g)	Unit Price 1 ~ 4 pc(s).	Volume Discount Rate 5~20
NZRCS	1	1.6	R1/8	Ø5	23.5	3	1	8	6.5	5	12	13.8	12	13.8	14.0		
		2.0															
	2	2.0	R1/4	Ø8	32	5.5	2	10	8	6.5	14	16	17	19.5	29.0		
		2.4															
		2.6															
		3.2															

NZRCS Specifications

Size	Hole Dia. (mm)	1.6					2.0				
1/8	Water Pressure (MPa)	0.05	0.10	0.20	0.30	0.50	0.05	0.10	0.20	0.30	0.50
	Water Qty. (ℓ/min)	1.08	1.51	2.09	2.55	3.26	1.29	1.79	2.48	3.05	3.91
	Spray Angle (°)	50	55	60	60	60	50	55	60	65	65
Size	Hole Dia. (mm)	2.0					2.4				
1/4	Water Pressure (MPa)	0.05	0.10	0.20	0.30	0.50	0.05	0.10	0.20	0.30	0.50
	Water Qty. (ℓ/min)	1.63	2.19	3.02	3.66	4.70	2.26	3.13	4.48	5.47	7.05
	Spray Angle (°)	40	45	50	50	50	45	55	60	60	60
Size	Hole Dia. (mm)	2.6					3.2				
1/4	Water Pressure (MPa)	0.05	0.10	0.20	0.30	0.50	0.05	0.10	0.20	0.30	0.50
	Water Qty. (ℓ/min)	2.72	3.72	5.24	6.41	8.35	3.76	5.11	7.22	8.73	11.23
	Spray Angle (°)	55	55	60	65	65	55	60	65	65	65

Spray Shape: Rod Shape

NZRS



Material: EN 1.4301 Equiv.

Part Number Type	No.	d (Hole Dia.)	T	L	L1	L2	B1	B2	Weight (g)	Unit Price 1 ~ 4 pc(s).	Volume Discount Rate 5~20
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	0.3	0.5	0.7	0.2	0.3	0.5	0.7	0.2	0.3	0.5	0.7	0.2	0.3	0.5	0.7
	Water Qty. (ℓ/min)	0.14	0.18	0.22	0.26	0.31	0.37	0.47	0.55	0.91	1.12	1.46	1.70	1.29	1.56	1.79	2.09	2.26	2.41	3.06	3.59
Size	Hole Dia. (mm)	1.6				2.0				2.5				3.0				3.6			
1/4	Water Pressure (MPa)	0.2	0.3	0.5	0.7	0.2	0.3	0.5	0.7	0.2	0.3	0.5	0.7	0.2	0.3	0.5	0.7	0.2	0.3	0.5	0.7
	Water Qty. (ℓ/min)	2.31	2.82	3.30	3.88	3.57	4.34	4.92	5.78	5.62	6.83	7.93	9.30	8.19	9.98	12.85	14.19	11.88	14.50	16.84	19.94

Spray Angle Adjustable

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

■Spray Photo

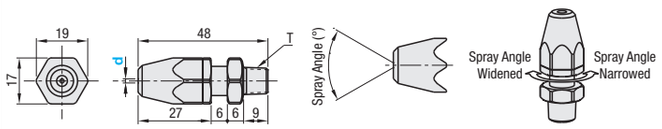
Part Number Type	No.	d (Hole Dia.)	T	Weight (g)	Unit Price 1 ~ 4 pc(s).	Volume Discount Rate 5~20
NZRAJ	1	1.5	R1/8	50		
		2.0				

■**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 response 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

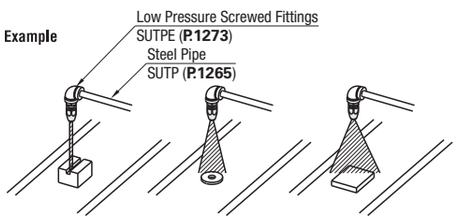


Adjustable Angle 0 ~ 60° (See the spray photo.)

Material: EN 1.4301 Equiv.

Hole Dia. (mm)	1.5														
Water Pressure (MPa)	0.05			0.1			0.2			0.3			0.5		
Angle (°)	0	30	60	0	30	60	0	30	60	0	30	60	0	30	60
Water Qty. (ℓ/min)	0.94	0.90	0.83	1.27	1.25	1.15	1.73	1.70	1.57	2.08	2.05	1.87	2.68	2.62	2.37
Hole Dia. (mm)	2.0														
Water Pressure (MPa)	0.05			0.1			0.2			0.3			0.5		
Angle (°)	0	30	60	0	30	60	0	30	60	0	30	60	0	30	60
Water Qty. (ℓ/min)	1.71	1.65	1.27	2.3	2.23	1.7	3.15	3.08	2.35	3.82	3.69	2.85	4.91	4.74	3.63

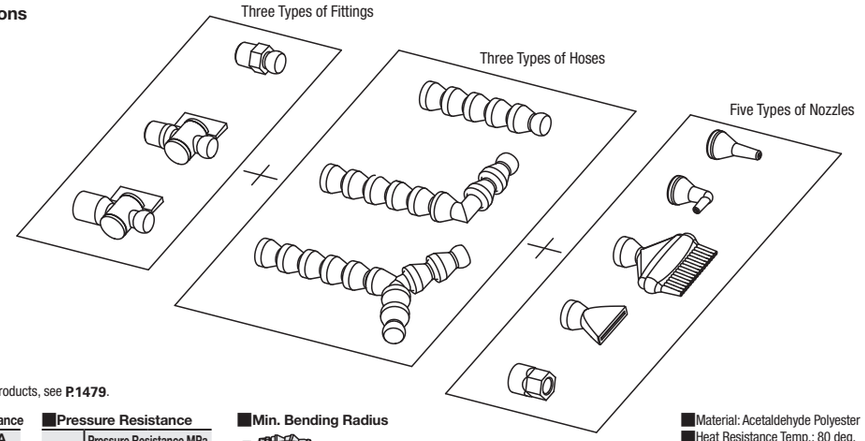
Example



Adjustable Hoses - Overview

■**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 coolantoolant liquid or lubricant application for metal processing machines. For air blow when positioning is cumbersome.

■**Combinations**



For selection of products, see P.1479.

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

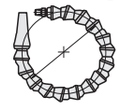
■**Chemical Resistance**

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

■**Pressure Resistance**

No.	Pressure Resistance MPa	
	Fluid	Air
2	0.2	0.5
3		
4		

■**Min. Bending Radius**

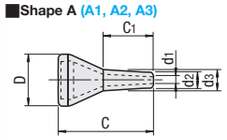


No.2 35mm
No.3 45mm
No.4 45mm

■**Dimension Details**

Nozzle

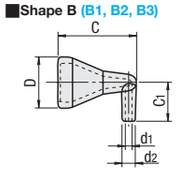
■**Shape A** (A1, A2, A3)



■**Shape A**

Hose Nominal	A1						A2						A3					
	C	C1	D	d1	d2	d3	C	C1	D	d1	d2	d3	C	C1	D	d1	d2	d3
2	30.0	16.0	16.0	1.6	4.9	7.0	30.0	19.0	16.0	3.2	6.3	9.6	35.0	25.5	16.0	6.3	9.6	11.0
3	33.0	19.0	21.0	6.3	9.5	13.0	39.0	28.0	21.0	9.5	13.0	15.0	33.0	22.0	21.0	12.7	15.0	16.0
4	37.5	24.5	24.5	6.6	10.5	12.5	37.5	24.5	24.5	9.5	12.5	15.5	37.5	24.5	24.5	12.5	17.0	19.0

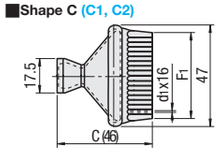
■**Shape B** (B1, B2, B3)



■**Shape B**

Hose Nominal	B1					B2					B3				
	C	C1	D	d1	d2	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	26.3	12.0	16.0	6.3	9.0
4	36.0	20.0	24.5	6.8	9.5	37.0	18.0	24.5	9.5	12.4	39.0	19.5	24.5	12.4	15.4

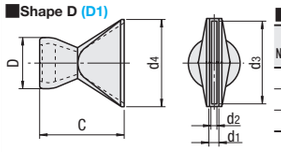
■**Shape C** (C1, C2)



■**Shape C**

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

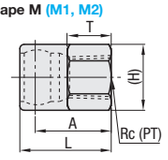
■**Shape D** (D1)



■**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)

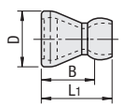


■**Shape M**

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

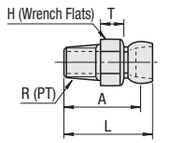


■**Hose** (For All Types)

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

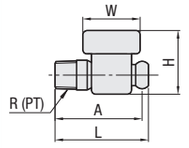
■**Male Threaded**



■**Shape AJ** (Male Threaded)

Hose Nominal	R (PT)	A	L	H	T
2	1(R1/8)	23	26.3	14	7
	2(R1/4)				
3	3(R3/8)	27.3	32	19	8
	4(R1/2)				
4	3(R3/8)	28	38.3	18.8	7.5
	4(R1/2)			20.8	

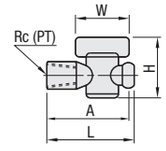
■**Male Valve**



■**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