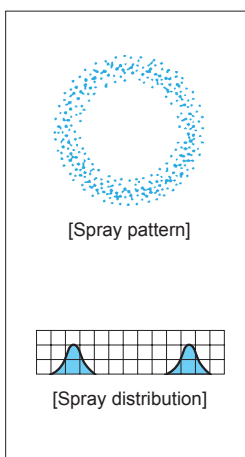


Low Flow Rate Hollow Cone Spray Nozzles

Made-to-Order

KD

Hollow Cone



- Low flow rate hollow cone spray nozzle in a three-piece structure.
- Combines compact design and semi-fine atomization capability.
- The whirl chamber is made up of a ceramic orifice and whirler, which provides excellent wear-resistance.

[STANDARD PRESSURE]

0.3 MPa

[APPLICATIONS]

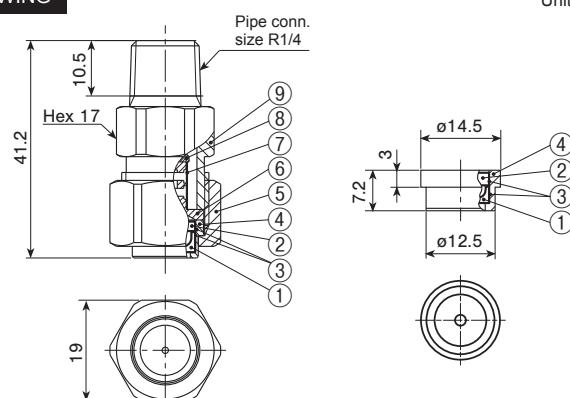
Cooling: Gas
Spraying: Chemicals, dust suppression

Structure	• Nozzle orifice and whirler are made of ceramic. • Includes three parts: Nozzle tip, cap, and adaptor. Worn-out nozzle tips can be replaced separately. • Small spray capacity models (KD03, 033 and 042) come with or without a strainer.
Material	• Nozzle orifice and whirler: ceramic • Metal parts: S303 SPECIAL ORDER MATERIAL: S316 or others
Weight	• Complete assembly*: 46 g • Nozzle tip: 3 g

*1) With strainer, add 5 g to the above weight and 2 mm to the total length.

DRAWING

Unit: mm



Complete Assembly

Nozzle Tip
(① + ② + ③ + ④)

①Ceramic orifice ②Ceramic whirler ③Adhesive: Araldite® ④Tip retainer
⑤Cap ⑥Strainer holder ⑦Strainer screen (S316) ⑧Strainer cap ⑨Adaptor

[Note] Appearance and dimensions may differ slightly depending on material and nozzle code.

Spray capacity code	Pipe conn. size	Spray angle (°)			Spray capacity (L/min)									Mean droplet diameter (μm)	Free passage diameter (mm)
	R1/4	0.15 MPa	0.3 MPa	0.7 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	1 MPa	1.5 MPa	2 MPa		
03	●	—	80	85	—	—	0.25	0.30	0.38	0.44	0.52	0.63	0.72	130	0.7
033	●	—	80	88	—	—	0.27	0.33	0.42	0.49	0.58	0.69	0.79	0.7	0.7
037	○	—	70	75	—	—	0.31	0.37	0.47	0.55	0.64	0.77	0.88	1.0	1.0
042	●	90	93	97	—	0.30	0.35	0.42	0.53	0.62	0.73	0.88	1.00	0.7	0.7
057	○	78	85	90	—	0.41	0.47	0.57	0.72	0.84	0.99	1.19	1.36	1.1	1.1
068	○	90	95	99	—	0.49	0.56	0.68	0.86	1.01	1.18	1.42	1.62	200	1.1
084	○	90	95	103	0.50	0.61	0.70	0.84	1.05	1.21	1.42	1.69	1.92	1.1	1.1
116	○	66	70	72	0.70	0.84	0.96	1.16	1.45	1.68	1.96	2.34	2.65	260	1.3
146	○	74	78	80	0.88	1.06	1.21	1.46	1.85	2.16	2.54	3.05	3.49	310	1.8
176	○	71	73	75	1.06	1.27	1.46	1.76	2.22	2.60	3.06	3.68	4.20	1.7	1.7
182	○	81	87	91	1.10	1.32	1.51	1.82	2.30	2.69	3.17	3.81	4.34	1.8	1.8
211	○	83	88	92	1.27	1.53	1.75	2.11	2.67	3.12	3.67	4.41	5.04	1.8	1.8
224	○	75	80	82	1.34	1.62	1.85	2.24	2.83	3.31	3.90	4.69	5.35	1.7	1.7
262	○	75	80	83	1.57	1.90	2.17	2.62	3.31	3.87	4.56	5.48	6.25	1.7	1.7
316	○	93	97	97	1.90	2.29	2.62	3.16	3.99	4.67	5.50	6.61	7.54	1.8	1.8
394	○	83	87	91	2.36	2.85	3.26	3.94	4.98	5.82	6.86	8.24	9.40	420	1.7

●: Available with or without strainer (mesh size #50) ○: Only available without strainer

HOW TO ORDER

To inquire about or order a specific nozzle please refer to this coding system.

① Complete Assembly

Example: 1/4M KD 03 S303W

Pipe conn. size ²	Spray capacity code	Material	Strainer
1/4M	03	S303	W
○	○		
394	394		

② Nozzle Tip Only

Example: 1/4 KD 03 S303

Spray capacity code	Material
1/4 KD	03
○	○
394	394

*2) "M" indicates male thread ("R" of the ISO standard), e.g. 1/4M = R1/4.

This nozzle series is made-to-order.