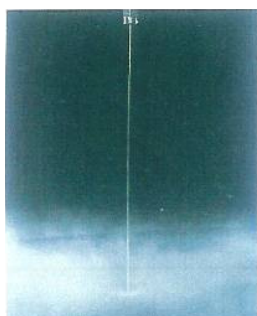


Needle Jet Nozzle with ruby tip

The Needle Jet Nozzle produces a high impact force without the scatter of spray. The nozzle orifice is made of highly wear-resistant material ensuring longevity and a truer straight cutting action.

It is used for the selvage cutting in paper making, washing inside dandy rollers, local washing of precision machines, and the injection of chemicals.



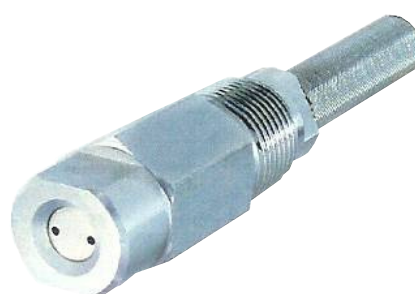
Single orifice



Double orifice



Single orifice model



Double orifice model

Construction

Ruby (nozzle tip), SS303 (nozzle case), and SS304 (filter).

Model No.	Orifice diam. (mm)	Flow rate (l/min) @ pressures (Mpa)									Filter (mesh)
		0.3	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	
1/8KRJ	0.3D	0.07	0.09	0.12	0.15	0.17	0.19	0.21	0.25	0.28	80
	0.4D	0.12	0.15	0.22	0.27	0.31	0.35	0.38	0.44	0.49	
	0.5D	0.19	0.24	0.34	0.42	0.48	0.54	0.59	0.68	0.77	
	0.6D	0.27	0.35	0.49	0.60	0.70	0.78	0.85	0.99	1.10	
	0.7D	0.37	0.47	0.67	0.82	0.95	1.06	1.16	1.34	1.49	50

Model No.	Orifice diam. (mm)	Flow rate (l/min) @ pressures (Mpa)									Filter (mesh)
		0.3	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	
3/8KRJ	0.4D x 2	0.24	0.30	0.44	0.54	0.62	0.70	0.76	0.88	0.98	80
	0.5D x 2	0.38	0.48	0.68	0.84	0.96	1.08	1.18	1.36	1.54	
	0.6D x 2	0.54	0.70	0.98	1.20	1.40	1.56	1.70	1.98	2.20	

**We guarantee orifice sizes, but flow rates are for reference only and may vary according to on site conditions



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Technical Data

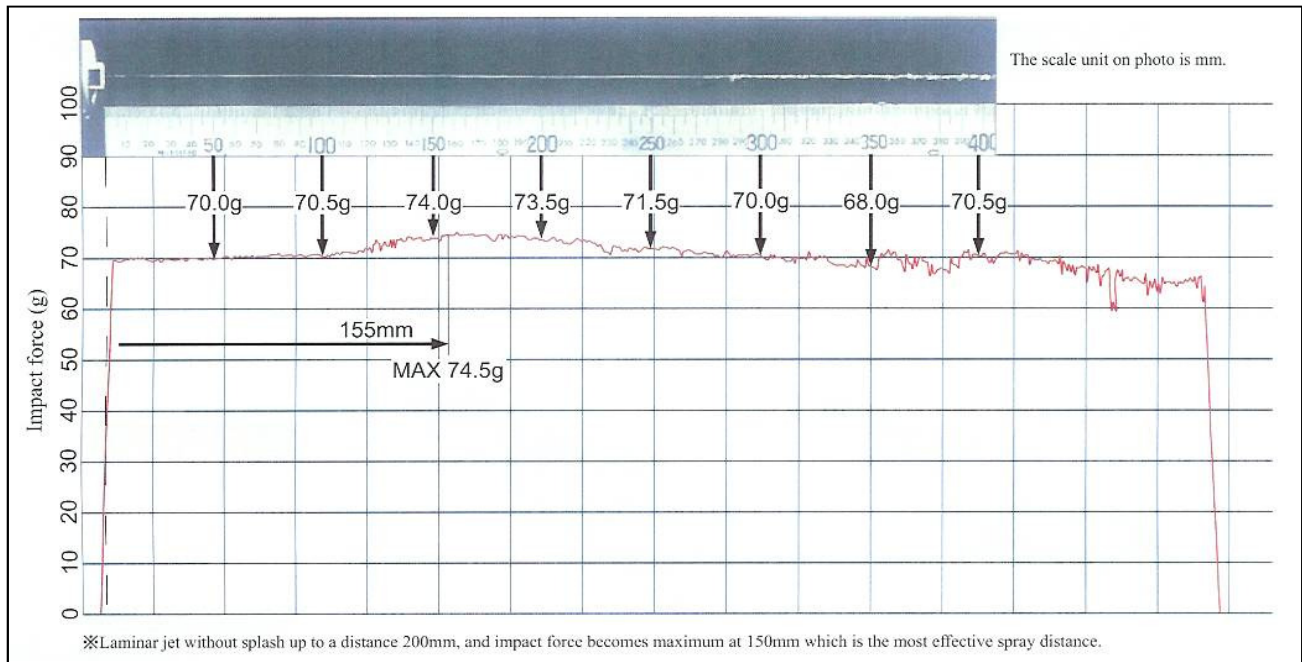
Impact forces at different spray distances

Nozzle model No. 1/8K CJ10.4D

Pressure 3.9 Mpa

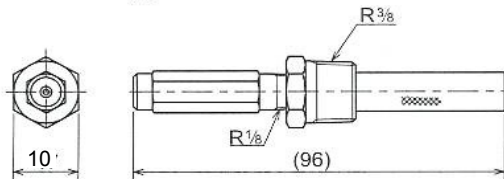
Measured range max.100g

(One graduation on the vertical axis to 10g impact force)



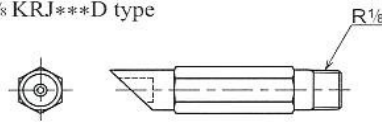
Nozzle Dimensions (including alternative design**)

● 1/8 KRJ***D type

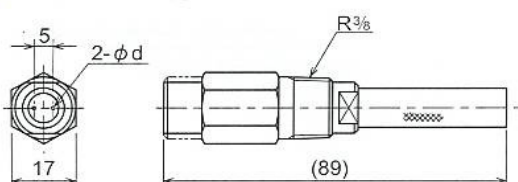


※As an optional, special type which protect the orifice from paper power is available.

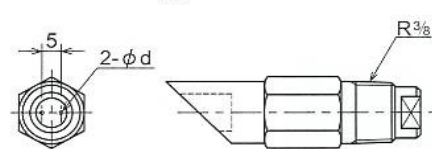
● 1/8 KRJ***D type



● 3/8 KRJ***D × 2 type



● 3/8 KRJ***D × 2 type



** Paper deposit on the nozzle may cause problems.

Selecting the appropriate nozzle orifice diameter, spray distance and operating pressure is essential to prevent the build up of paper deposits.

The use of the advanced Needle Jet Nozzle will assist in the prevention of these deposits.



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