Self-cleaning Nozzle Flat type

Features

- Special resistance to clogging.
- Evacuating sludge/slurry and cleaning nozzles with minimum downtime.

Applications

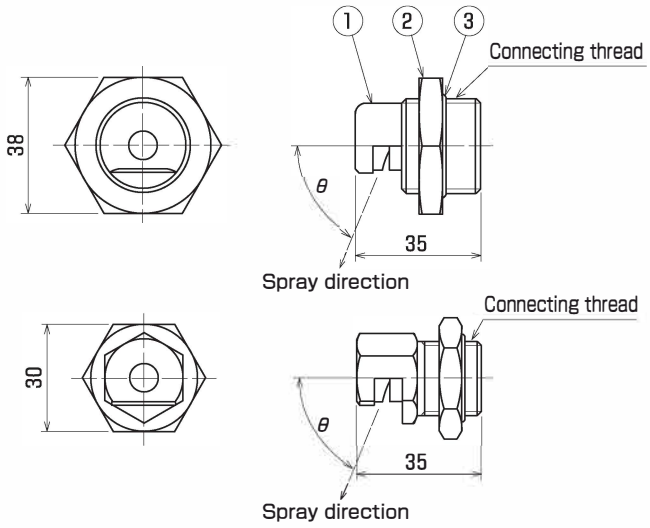
- Cleaning of wires and felts.
- Cleaning of wire rolls and doctors.
- White water spraying facilities.

Materials

- Principal parts : 303 and 316 Stainless steel

Shapes and dimensions

SCF, Straight thread type

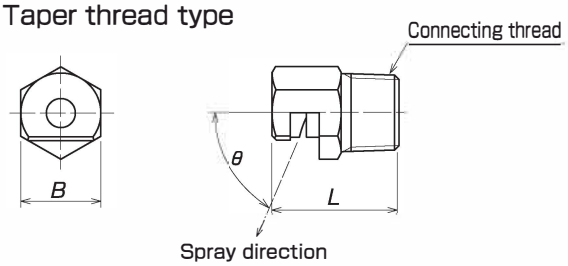


Model	Connecting thread	Weight [g]
SCF	G 3/4 φ28-20	130

No.	Part name
1	Nozzle body
2	Lock nut
3	O-ring

Model	Connecting thread	Weight [g]
SCF	G 1/2	95

SCF, Taper thread type



Model	Dimension [mm]		Connecting thread	Weight [g]
	B	L		
1/2 SCF	22	35	R 1/2	75
3/4 SCF	27	35	R 3/4	120

*NPT thread is also available.
*The spray inclination θ ranges from 70° to 85°.

Model and Model Number representing

《Straight thread type》

S C F 1080 G 3/4

- 1080: Model number
- G 3/4: Thread size (G - Straight pipe thread; No symbol - φ28 – 20)

《Taper thread type》

1/2 S C F 1080

- 1/2: Thread size
- 1080: Model number

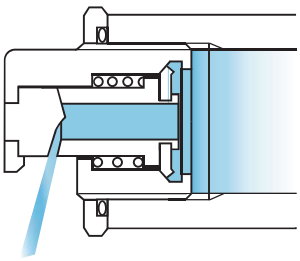
Standard type model number list

●: Model availability

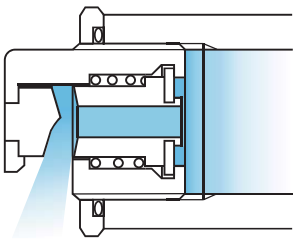
Model	Thread size			Model number	Equivalent orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]							Spray angle at 0.3 MPa
	1/2	3/4	φ28			0.1	0.2	0.3	0.4	0.5	0.7	1.0	
SCF	●	●	●	0215	1.3	1.15	1.63	2.0	2.3	2.6	3.1	3.7	15°
	●	●	●	0240	1.3	1.15	1.63	2.0	2.3	2.6	3.1	3.7	40°
	●	●	●	0280	1.3	1.15	1.63	2.0	2.3	2.6	3.1	3.7	80°
	●	●	●	02130	1.3	1.15	1.63	2.0	2.3	2.6	3.1	3.7	130°
	●	●	●	0415	1.9	2.3	3.3	4.0	4.6	5.2	6.1	7.3	15°
	●	●	●	0440	1.9	2.3	3.3	4.0	4.6	5.2	6.1	7.3	40°
	●	●	●	0480	1.9	2.3	3.3	4.0	4.6	5.2	6.1	7.3	80°
	●	●	●	04130	1.9	2.3	3.3	4.0	4.6	5.2	6.1	7.3	130°
	●	●	●	0615	2.3	3.5	4.9	6.0	6.9	7.7	9.2	11.0	15°
	●	●	●	0640	2.3	3.5	4.9	6.0	6.9	7.7	9.2	11.0	40°
	●	●	●	0680	2.3	3.5	4.9	6.0	6.9	7.7	9.2	11.0	80°
	●	●	●	06130	2.3	3.5	4.9	6.0	6.9	7.7	9.2	11.0	130°
	●	●	●	1015	3.0	5.8	8.2	10.0	11.5	12.9	15.3	18.3	15°
	●	●	●	1040	3.0	5.8	8.2	10.0	11.5	12.9	15.3	18.3	40°
	●	●	●	1080	3.0	5.8	8.2	10.0	11.5	12.9	15.3	18.3	80°
	●	●	●	10130	3.0	5.8	8.2	10.0	11.5	12.9	15.3	18.3	130°
		●	●	1415	3.5	8.1	11.4	14.0	16.2	18.1	21.4	25.6	15°
		●	●	1440	3.5	8.1	11.4	14.0	16.2	18.1	21.4	25.6	40°
		●	●	1480	3.5	8.1	11.4	14.0	16.2	18.1	21.4	25.6	80°
		●	●	14130	3.5	8.1	11.4	14.0	16.2	18.1	21.4	25.6	130°
		●	●	1815	4.0	10.4	14.7	18.0	20.8	23.2	27.5	32.9	15°
		●	●	1840	4.0	10.4	14.7	18.0	20.8	23.2	27.5	32.9	40°
		●	●	1880	4.0	10.4	14.7	18.0	20.8	23.2	27.5	32.9	80°
		●	●	18130	4.0	10.4	14.7	18.0	20.8	23.2	27.5	32.9	130°

Cleaning principle

In normal operation (at increased pressure)



When cleaning foreign matter (at 0.03 MPa)



* Sludge/slurry is pushed out from the nozzle orifice. The orifice is wide opened by the spring force at low pressure.
* Flow rate should not exceed 10 L/min for pushing out sludge/slurry.