

หัวฉีดแบบทัวไป

Flat spray pattern



Features

Flat spray pattern with a mountain-shaped spray distribution having gradually tapered edges. Tapered edges overlap to provide uniformity of spray distribution in multiple-nozzle arrangements.



Application

- Cleaning : Automotives, containers, films, filters, screens, bottles, crushed stones, earth and sand, metal parts, machines, steel plates and pieces.
- Spraying : Etchants, oils, lubricants, liquids, solutions, insecticides, herbicides
- Cooling : Gas, smokes, heat exchangers, tanks, steels, roofs
- Water screen : Fire protection, heat protection, dust suppression, deodorization.

Structure

- Made of metal
- Simple one-piece structure to be screwed into pipe.

Standard Pressure

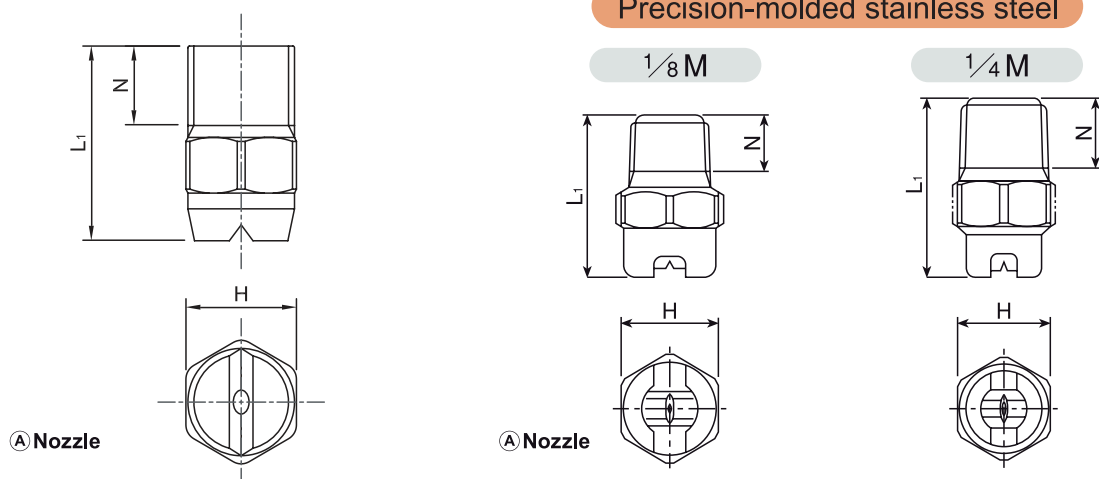
• 3 bar

Material

- S303 or B (brass)
- S316L equivalent (precision-molded stainless steel)
- optional material : S316
- Ultrahigh molecular weight polyethylene or others

Series	Pipe conn. size	Dimensions (mm)			Mass (g)		
		L ₁	H	N	S303	B	S316L
FV	1/8M	18.5	12	6.5	10	11	-
	1/4M	26	14	10.5	21	23	-
	3/8M	30	19	14	37	40	-
	1/2M	38	23	15	65	70	-
FV (Precision-molded stainless steel)	1/8M	20	12	7	-	-	9.6
	1/4M	27	14	10.5	-	-	16

Shapes And Dimension



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Specifications

Model	Spray Code	Pipe Connection Size				Free Pass. Dia. (mm)	Spray Angle (°)			Spray Capacity (l/min)							Mean Drop. Dia. (µm)		
		All Metal					1.5 bar	3 bar	7 bar	0.5 bar	1 bar	1.5 bar	2 bar	3 bar	5 bar	7 bar		10 bar	20 bar
		1/8M	1/4M	3/8M	1/2M														
115° Spray Angle																			
03	/	/	/	/	0.2	101	115	124	-	-	0.21	0.24	0.30	0.39	0.46	0.55	0.77	140	
04	/	/	/	/	0.2	102	115	124	-	-	0.28	0.33	0.40	0.52	0.61	0.73	1.03	160	
05	/	/	/	/	0.3	102	115	124	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	160	
07	/	/	/	/	0.3	103	115	124	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	160	
10	/	/	/	/	0.4	103	115	124	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	160	
15	/	/	/	/	0.5	104	115	123	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	160	
20	/	/	/	/	0.6	104	115	123	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	270	
30	/	/	/	/	0.8	105	115	122	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	160	
40	/	/	/	/	0.8	106	115	122	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	160	
60	/	/	/	/	1.0	107	115	121	2.45	3.46	4.24	4.90	6.00	7.75	9.17	11.0	15.5	160	
80	/	/	/	/	1.2	107	115	121	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	160	
100	/	/	/	/	1.7	107	115	120	4.08	5.77	7.07	8.17	10.0	12.9	15.3	18.3	25.8	160	
200	/	/	/	/	2.4	109	115	120	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	510	
230	/	/	/	/	2.7	109	115	119	9.39	13.3	16.3	18.8	23.0	29.7	35.1	42.0	59.4	160	
300	/	/	/	/	3.0	109	115	119	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	160	
400	/	/	/	/	3.5	110	115	118	16.3	23.1	28.3	32.7	40.0	51.6	61.1	73.0	103	580	
600	/	/	/	/	4.3	111	115	118	24.5	34.6	42.4	49.0	60.0	77.5	91.7	110	155	610	
90° Spray Angle																			
02	/	/	/	/	0.2	76	90	100	-	0.12	0.14	0.16	0.20	0.26	0.31	0.37	0.52	145	
03	/	/	/	/	0.2	76	90	100	-	-	0.21	0.24	0.30	0.39	0.46	0.55	0.77	150	
04	/	/	/	/	0.3	77	90	100	-	-	0.28	0.33	0.40	0.52	0.61	0.73	1.03	160	
05	/	/	/	/	0.3	77	90	100	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	170	
07	/	/	/	/	0.4	78	90	100	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	160	
10	/	/	/	/	0.5	78	90	99	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	160	
15	/	/	/	/	0.6	79	90	99	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	160	
20	/	/	/	/	0.7	79	90	98	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	160	
30	/	/	/	/	0.9	80	90	97	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	280	
40	/	/	/	/	1.1	81	90	97	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	160	
50	/	/	/	/	1.2	81	90	97	2.04	2.89	3.54	4.08	5.00	6.46	7.64	9.13	12.9	160	
60	/	/	/	/	1.3	82	90	96	2.45	3.46	4.24	4.90	6.00	7.75	9.17	11.0	15.5	160	
80	/	/	/	/	1.5	82	90	96	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	160	
100	/	/	/	/	1.7	82	90	96	4.08	5.77	7.07	8.17	10.0	12.9	15.3	18.3	25.8	160	
120	/	/	/	/	2.0	83	90	95	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	160	
140	/	/	/	/	2.2	83	90	95	5.72	8.08	9.90	11.4	14.0	18.1	21.4	25.6	36.1	160	
200	/	/	/	/	2.6	84	90	95	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	540	
300	/	/	/	/	3.4	84	90	94	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	160	
400	/	/	/	/	3.8	85	90	94	16.3	23.1	28.3	32.7	40.0	51.6	61.1	73.0	103	580	
500	/	/	/	/	4.2	85	90	93	20.4	28.9	35.4	40.8	50.0	64.6	76.4	91.3	129	160	
600	/	/	/	/	4.7	86	90	93	24.5	34.6	42.4	49.0	60.0	77.5	91.7	110	155	160	
80° Spray Angle																			
05	/	/	/	/	0.3	67	80	90	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	180	
07	/	/	/	/	0.4	68	80	89	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	160	
10	/	/	/	/	0.5	68	80	89	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	160	
15	/	/	/	/	0.7	69	80	88	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	160	
20	/	/	/	/	0.8	69	80	88	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	160	
30	/	/	/	/	1.0	70	80	87	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	290	
40	/	/	/	/	1.2	71	80	87	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	160	
50	/	/	/	/	1.4	71	80	86	2.04	2.89	3.54	4.08	5.00	6.46	7.64	9.13	12.9	160	
80	/	/	/	/	1.7	72	80	86	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	160	
120	/	/	/	/	2.1	73	80	85	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	160	
200	/	/	/	/	2.9	74	80	85	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	550	
300	/	/	/	/	3.7	74	80	84	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	570	
500	/	/	/	/	4.8	75	80	83	20.4	28.9	35.4	40.8	50.0	64.6	76.4	91.3	129	600	
600	/	/	/	/	5.1	76	80	83	24.5	34.6	42.4	49.0	60.0	77.5	91.7	110	155	160	

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Specifications

Model	Spray Code	Pipe Connection Size				Free Pass. Dia. (mm)	Spray Angle (°)			Spray Capacity (l/min)								Mean Drop. Dia. (µm)	
		All Metal					1.5 bar	3 bar	7 bar	0.5 bar	1 bar	1.5 bar	2 bar	3 bar	5 bar	7 bar	10 bar		20 bar
		1/8M	1/4M	3/8M	1/2M														
65° Spray Angle																			
03	/	/	/		0.3	52	65	75	-	-	0.21	0.24	0.30	0.39	0.46	0.55	0.77	160	
04	/	/	/		0.3	52	65	75	-	-	0.28	0.33	0.40	0.52	0.61	0.73	1.03	?	
05	/	/	/		0.4	52	65	74	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	190	
07	/	/	/		0.5	53	65	74	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	?	
10	/	/	/		0.6	54	65	73	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	?	
15	/	/	/		0.8	54	65	73	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	?	
20	/	/	/		0.9	55	65	72	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	310	
30	/	/	/		1.1	56	65	72	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	?	
40	/	/	/		1.3	56	65	71	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	?	
50	/	/	/		1.5	57	65	71	2.04	2.89	3.54	4.08	5.00	6.46	7.64	9.13	12.9	?	
60	/	/	/		1.6	57	65	71	2.45	3.46	4.24	4.90	6.00	7.75	9.17	11.0	15.5	?	
80	/	/	/		1.9	58	65	71	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	?	
100	/	/	/		2.1	58	65	70	4.08	5.77	7.07	8.17	10.0	12.9	15.3	18.3	25.8	?	
120	/	/	/		2.3	58	65	70	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	?	
140	/	/	/		2.5	59	65	69	5.72	8.08	9.90	11.4	14.0	18.1	21.4	25.6	36.1	?	
170	/	/	/		2.8	59	65	69	6.94	9.82	12.0	13.9	17.0	22.0	26.0	31.1	43.9	?	
200	/	/	/		3.0	59	65	69	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	580	
300	/	/	/		3.9	60	65	69	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	650	
50° Spray Angle																			
04	/	/	/		0.4	37	50	60	-	0.23	0.28	0.33	0.40	0.52	0.61	0.73	1.03	190	
05	/	/	/		0.4	38	50	59	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	210	
07	/	/	/		0.5	38	50	58	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	?	
10	/	/	/		0.6	40	50	58	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	?	
20	/	/	/		1.0	41	50	57	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	?	
30	/	/	/		1.2	42	50	56	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	340	
40	/	/	/		1.4	42	50	56	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	?	
50	/	/	/		1.6	43	50	55	2.04	2.89	3.54	4.08	5.00	6.46	7.64	9.13	12.9	?	
60	/	/	/		1.7	43	50	55	2.45	3.46	4.24	4.90	6.00	7.75	9.17	11.0	15.5	?	
80	/	/	/		2.0	43	50	55	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	?	
120	/	/	/		2.5	44	50	54	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	550	
200	/	/	/		3.3	45	50	53	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	640	
400	/	/	/		4.9	46	50	52	16.3	23.1	28.3	32.7	40.0	51.6	61.1	73.0	103	?	
600	/	/	/		6.1	47	50	52	24.5	34.6	42.4	49.0	60.0	77.5	91.7	110	155	750	
40° Spray Angle																			
05	/	/	/		0.4	30	40	48	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	230	
07	/	/	/		0.5	30	40	48	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	?	
10	/	/	/		0.7	31	40	47	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	?	
20	/	/	/		1.0	32	40	46	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	380	
30	/	/	/		1.3	33	40	46	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	?	
40	/	/	/		1.5	33	40	45	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	?	
80	/	/	/		2.1	34	40	44	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	?	
120	/	/	/		2.8	35	40	44	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	?	
200	/	/	/		3.5	35	40	43	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	710	
300	/	/	/		4.5	36	40	42	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	800	
500	/	/	/		5.8	37	40	42	20.4	28.9	35.4	40.8	50.0	64.6	76.4	91.3	129	850	
800	/	/	/		7.4	37	40	41	32.7	46.2	56.5	65.3	80.0	103	122	146	206	?	
25° Spray Angle																			
05	/	/	/		0.5	18	25	32	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	270	
07	/	/	/		0.6	18	25	32	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	?	
15	/	/	/		1.0	19	25	31	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	?	
30	/	/	/		1.4	19	25	30	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	440	
40	/	/	/		1.7	19	25	30	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	?	
80	/	/	/		2.3	20	25	29	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	?	
200	/	/	/		4.0	21	25	27	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	850	

How to order Please order for a specific nozzle on this coding system

(Example)

1/4M

Pipe Size

FV

Model

115

Spray Angle

120

Spray Code

S303

Material

* Material Available :
Stainless Steel :
S303, S316, S316L,
Brass