

Wide-angle Full Cone Spray Nozzles
BBXP/BBXP-PVDF/BBXP-PVC series

BBXP-series

Spray Capacity Code	Pipe Conn. Size		Spray Angle			Spray Capacity (ℓ/min)								Mean Drop. Dia. (μm)	Free Pass. Dia. (mm)	
	1/8M	1/4M	0.05 MPa	0.2 MPa	0.5 MPa	0.03 MPa	0.05 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.35 MPa	0.5 MPa	0.7 MPa			1 MPa
015	○	○	—	120°	112°	—	—	1.09	1.32	1.50	1.88	2.18	2.50	2.89	300	0.8
020	○	○	110°	120°	112°	—	1.06	1.46	1.75	2.00	2.51	2.91	3.34	3.86	300	1.2
030	○	○	112°	120°	113°	—	1.59	2.18	2.63	3.00	3.77	4.36	5.00	5.79	340	1.3
040	○	○	110°	120°	112°	—	2.12	2.91	3.51	4.00	5.03	5.81	6.67	7.72	350	1.3
050	○	○	112°	120°	113°	—	2.65	3.64	4.38	5.00	6.28	7.27	8.34	9.64	350	1.5
060	○	○	114°	120°	114°	2.51	3.18	4.37	5.26	6.00	7.54	8.72	10.0	11.6	430	1.8

Spray Capacity Code	Pipe Conn. Size				Spray Angle				Spray Capacity (ℓ/min)								Mean Drop. Dia. (μm)	Free Pass. Dia. (mm)					
	3/8M	1/2M	3/4M	1M	11/2F	2F	21/2F	3F	4F	0.15 MPa	0.35 MPa	0.7 MPa	0.03 MPa	0.05 MPa	0.1 MPa	0.15 MPa			0.2 MPa	0.35 MPa	0.5 MPa	0.7 MPa	1 MPa
10	○	○								123°	120°	111°	3.34	4.21	5.79	6.98	7.96	10.0	11.6	13.3	15.3	340	1.9
12	○	○								124°	120°	112°	4.00	5.06	6.95	8.37	9.55	12.0	13.9	15.9	18.4	340	2.3
14	○	○								124°	120°	112°	4.67	5.90	8.10	9.77	11.1	14.0	16.2	18.6	21.5	340	2.6
16	○	○								125°	120°	113°	5.33	6.74	9.25	11.2	12.7	16.0	18.5	21.2	24.6	340	2.6
18		○								123°	120°	111°	6.00	7.58	10.4	12.6	14.3	18.0	20.8	23.9	27.6	420	2.9
20		○								123°	120°	111°	6.67	8.43	11.6	14.0	15.9	20.0	23.1	26.5	30.7	420	2.9
23		○								124°	120°	112°	7.67	9.69	13.3	16.0	18.3	23.0	26.6	30.5	35.3	420	2.9
26		○								124°	120°	112°	8.67	11.0	15.1	18.1	20.7	26.0	30.1	34.5	39.9	480	3.5
30		○								123°	120°	111°	10.0	12.6	17.4	20.9	23.9	30.0	34.7	39.8	46.0	580	4.1
40		○								124°	120°	112°	13.3	16.9	23.2	27.9	31.8	40.0	46.3	53.1	61.4	580	4.7
50		○								125°	120°	113°	16.7	21.0	29.0	34.9	39.8	50.0	57.8	66.3	76.7	580	4.7
60		○								124°	120°	112°	20.0	25.3	34.7	41.9	47.7	60.0	69.4	79.6	92.1	630	5.3
80		○								125°	120°	113°	26.7	33.7	46.3	55.8	63.7	80.0	92.5	106	123	630	5.7
100		○								123°	120°	111°	33.3	42.1	57.9	69.8	79.6	100	115	135	155	630	6.2
150		○								124°	120°	112°	50.0	63.2	86.9	105	120	150	175	200	230	630	7.5
200		○								124°	120°	112°	66.7	84.3	115	140	160	200	230	265	310	710	9.0
300		○								125°	120°	113°	100	125	175	210	240	300	350	400	460	900	11.5
400		○								124°	120°	112°	135	170	235	280	320	400	465	530	615	900	13.4
500		○								125°	120°	113°	170	210	290	350	400	500	580	665	770	1000	18.4
600		○								124°	120°	112°	200	255	350	420	480	600	695	795	920	1100	16.0
700		○								125°	120°	113°	235	295	405	490	550	700	810	930	1070	1100	17.2
900		○								124°	120°	112°	300	380	520	630	720	900	1041	1195	1380	1100	19.3
1200		○								125°	120°	113°	400	505	695	840	955	1200	1390	1590	1840	1200	22.4

BBXP-PVDF series

Spray Capacity Code	Pipe Conn. Size		Spray Angle			Spray Capacity (ℓ/min)								Mean Drop. Dia. (μm)	Free Pass. Dia. (mm)	Nozzle Color	
	1/8M	1/4M	0.05 MPa	0.2 MPa	0.5 MPa	0.03 MPa	0.05 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.35 MPa	0.5 MPa	0.7 MPa				1 MPa
008	○	○	—	120°	112°	—	—	0.58	0.70	0.80	1.00	1.16	1.33	1.54	280	0.5	Black
015	○	○	—	120°	112°	—	—	1.09	1.32	1.50	1.88	2.18	2.50	2.89	300	0.8	Black
020	○	○	110°	120°	113°	—	1.06	1.46	1.75	2.00	2.51	2.91	3.34	3.86	340	1.2	Black

*Nozzle colors differ depending on Spray Capacity Codes; BBXP008 and BBXP020 are black, BBXP015 is gray.

BBXP-PVC series

Spray Capacity Code	Pipe Conn. Size	Spray Angle			Spray Capacity (ℓ/min)								Mean Drop. Dia. (μm)	Free Pass. Dia. (mm)	
		0.05 MPa	0.2 MPa	0.5 MPa	0.03 MPa	0.05 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa			1 MPa
030	1/8M	115°	120°	110°	—	1.59	2.18	2.63	3.00	3.54	4.36	5.00	5.79	350	1.5

How to order

Please inquire or order for a specific nozzle using this coding system.

① BBXP

<Example>...1/8M BBXP015B

1/8M BBXP 015 S303

Pipe Conn. Size (*1)	Spray Capacity Code	Material (*2)
1/8M	015	B
1/4M	150	S303
3/8M	1200	S316

② BBXP-PVDF

<Example>...1/8M BBXP020PVDF

1/8M BBXP 020 PVDF (BLA)

Pipe Conn. Size	Spray Capacity Code	Nozzle Color
1/8M	008	BLA (BBXP008, 020)
1/4M	015	GRA (BBXP015)
3/8M	020	

③ BBXP-PVC

<Example>...1/8M BBXP030PVC-IN

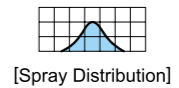
1/8M BBXP030PVC-IN

*1) Pipe connection size code for 1/4M is indicated as "1/4 x 1/8M" when spray capacity is 015-030.

*2) See "Material" information on page 72 for standard materials by each size.

Narrow-angle Full Cone Spray Nozzles

NJJP



[Features]

- Narrow-angle full cone spray pattern with a round impact area and uniform distribution.
- Unique design producing fine atomization without a whirler.
- No-whirler design with large free passage diameter minimizes clogging.

[Standard Pressure]

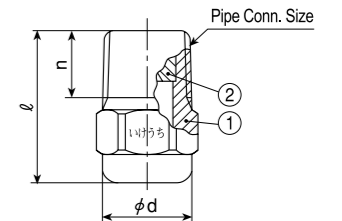
0.3MPa

[Applications]

Cleaning : Pipes, bottles, containers, filters, etc.
 Cooling : Metal sheets, etc.

NJJP-series

NJJP-series	
Structure	• One piece structure with press-fit orifice plate. • No obstructions in nozzle interior.
Material	• S303 (stainless steel 303) • Optional material : S316



Series	Pipe Conn. Size	Dimensions(mm)				Mass(g)
		ℓ	h	φd	n	
NJJP	1/4M	24	14	13.5	10.5	19.5
	3/8M	32	19	18	11	48

[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

①Body ②Orifice plate

Spray Angle Code	Spray Capacity Code	Pipe Conn. Size		Spray Angle			Spray Capacity (ℓ/min)						Mean Drop. Dia. (μm)	Free Pass. Dia. (mm)
		1/4M	3/8M	0.15 MPa	0.3 MPa	0.7 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	1 MPa		
30°	06	○	○	26°	30°	32°	4.80	5.26	6.00	7.42	8.54	9.91	750	2.5
	08	○	○	26°	30°	32°	6.40	7.02	8.00	9.90	11.4	13.2	300	3.0
	14	○	○	26°	30°	32°	11.2	12.3	14.0	17.3	19.9	23.1	300	3.9
	20	○	○	26°	30°	32°	16.0	17.5	20.0	24.7	28.5	33.0	970	4.6
15°	06	○	○	12°	15°	16°	4.80	5.26	6.00	7.42	8.54	9.91	925	2.4
	08	○	○	12°	15°	16°	6.40	7.02	8.00	9.90	11.4	13.2	300	3.0
	14	○	○	12°	15°	16°	11.2	12.3	14.0	17.3	19.9	23.1	300	3.9
	20	○	○	12°	15°	16°	16.0	17.5	20.0	24.7	28.5	33.0	1,200	4.6

[Note]

Please use NJJP nozzles at 0.15MPa or higher water pressure to obtain a stable spray pattern.

How to order

Please inquire or order for a specific nozzle using this coding system.

<Example>...1/4MNJJP3006S303

1/4M	NJJP	30	06	S303
Pipe Conn. Size		Spray Angle Code	Spray Capacity Code	
1/4M		30°	06	
3/8M		15°	15	
			20	