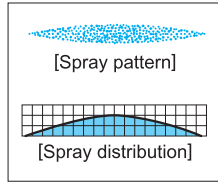




[Features]

- Flat spray pattern with stable distribution having tapered spray pattern edges.
- Easy installation just by drilling a hole ($\phi 14.3$ mm) on a pipe and inserting a nozzle.
- Adaptors, color-coded by size, are available in 1", 1 1/4", 1 1/2", 2", 25A and 30A.
- O-ring seals between pipe and adaptor for pressures up to 0.4 MPa.
- Adjust spray direction within 50 degrees as desired.
- Spray tips are color-coded by spray capacity for easy identification.
- Caps are interchangeable for all sizes.
- Easy maintenance with quickly detachable nozzle.
- Double locked by fitting spring lock (option).



[Standard Pressure]

0.3 MPa

[Applications]

Pre-treatment for painting: Car, home electric appliances
 Cleaning: water rinsing after acid treatment of steel plates, water rinsing process in food factory

QB series

QB series	
Structure	<ul style="list-style-type: none"> ● Comprises three parts: Nozzle, ball and adaptor. ● Worn-out nozzle can be replaced separately.
Material	<ul style="list-style-type: none"> ● Main parts: FRPP (glass-fiber reinforced polypropylene) ● Packing: FEPM ● O-ring: NBR ● Spring clip and spring lock: S304

[QB for metal pipes]

Pipe size (inch)	Color of adaptor	Dimensions (mm)						Mass (g)
		L ₁	L ₂	L ₃	L ₄	ϕD_1	ϕD_2	
1	Blue	105	89	72	55	34	48	61
1 1/4	Green	114	98	76	55	42.7	48	
1 1/2	Yellow	120	104	79	55	48.6	48	
2	Orange	132	116	85	55	60.5	48	

*Pipes should be stainless steel pipes compliant with JIS G 3459.

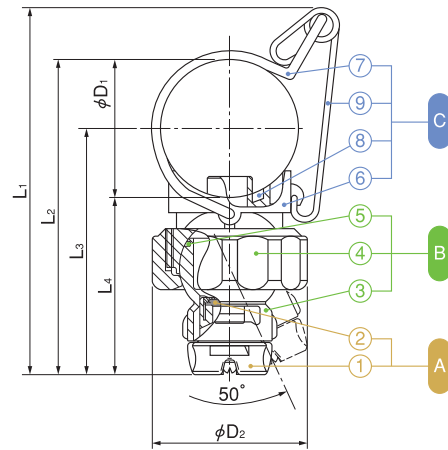
[QB for PVC pipes]

Pipe size (ND)	Color of adaptor	Dimensions (mm)						Mass (g)
		L ₁	L ₂	L ₃	L ₄	ϕD_1	ϕD_2	
25A	Blue	103	87	71	55	32	48	61
30A	Green	109	93	74	55	38	48	
40A	Yellow	120	104	79	55	48.6	48	
50A	Orange	132	116	85	55	60.5	48	

*Pipes should be PVC pipes compliant with JIS K 6742.

*40A, 50A adaptors for PVC pipes are the same as 1 1/2", 2" adaptors for metal pipes.

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



- A Nozzle** (① Nozzle ② Packing [FEPM])
- B Ball** (③ Ball ④ Cap ⑤ O-ring [NBR])
- C Adaptor** (⑥ Adaptor ⑦ Spring clip ⑧ O-ring [NBR] ⑨ Spring lock*)

*⑨ is an optional extra.

Spray Angle Code (at 0.3 MPa)	Spray Capacity Code	Pipe Size		Spray Capacity (ℓ/min)				Mean Droplet Diameter (μm)	Free Passage Diameter (mm)	Color of Nozzle Body
		(inch)	(ND)	0.1 MPa	0.2 MPa	0.3 MPa	0.4 MPa			
80	80	1	25A	4.62	6.53	8.00	9.24	430	1.7	
	100		•	5.77	8.16	10.0	11.5		2.0	
	120		•	6.93	9.80	12.0	13.9		2.3	
	160	1 1/4	30A	9.24	13.1	16.0	18.5		2.7	
	180	•	•	10.4	14.7	18.0	20.8		2.8	
	200	1 1/2	(40A)	11.5	16.3	20.0	23.1		2.8	
	240	•	•	13.9	19.6	24.0	27.7		3.2	
	280	2	(50A)	16.2	22.9	28.0	32.3		3.6	
	390	•	•	22.5	31.8	39.0	45.0		4.3	

Spray Angle Code (at 0.3 MPa)	Spray Capacity Code	Pipe Size		Spray Capacity (ℓ/min)				Mean Droplet Diameter (μm)	Free Passage Diameter (mm)	Color of Nozzle Body
		(inch)	(ND)	0.1 MPa	0.2 MPa	0.3 MPa	0.4 MPa			
65	80	1 • 1¼ • 1½ • 2	25A • 30A • (40A) • (50A)	4.62	6.53	8.00	9.24	460	1.8	Red
	100			5.77	8.16	10.0	11.5		2.2	Grey
	120			6.93	9.80	12.0	13.9		2.4	Black
	160			9.24	13.1	16.0	18.5	560	2.8	Blue
	180			10.4	14.7	18.0	20.8		3.0	Orange
	200			11.5	16.3	20.0	23.1		3.3	Green
	240			13.9	19.6	24.0	27.7	800	3.6	Light Blue
	280			16.2	22.9	28.0	32.3		3.8	Red
	390			22.5	31.8	39.0	45.0		4.5	Grey
40	80	1 • 1¼ • 1½ • 2	25A • 30A • (40A) • (50A)	4.62	6.53	8.00	9.24	560	2.2	Red
	100			5.77	8.16	10.0	11.5		2.5	Grey
	120			6.93	9.80	12.0	13.9		2.8	Black
	160			9.24	13.1	16.0	18.5	800	3.2	Blue
	180			10.4	14.7	18.0	20.8		3.3	Orange
	200			11.5	16.3	20.0	23.1		3.6	Green
	240			13.9	19.6	24.0	27.7	800	3.9	Light Blue
	280			16.2	22.9	28.0	32.3		4.3	Red
	390			22.5	31.8	39.0	45.0		5.1	Grey

[Note] INVV and INJXX series nozzles (p.21, p.63) are not attachable to QB series.

⚠ CAUTIONS	Maximum operating pressure is 0.4 MPa.	* Do not use under conditions where water hammer or sudden change of water pressure may occur.
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How to order Please inquire or order for a specific nozzle using this coding system.

<Example> ...ISVV65280FRPP+ISB+1¼QBFRPP+L

NOZZLE PART		BALL PART		ADAPTOR PART		SPRING LOCK (OPTION)
ISVV	65	280	FRPP + ISB +	1¼	QB FRPP + L	
<small>Spray Angle Code</small>	40 65 80	<small>Spray Capacity Code</small>	80 390	<small>Pipe Size*</small>	1" (Outer diameter 34.00 ±0.5 mm) 1¼" (Outer diameter 42.7 ±0.5 mm) 1½" (Outer diameter 48.6 ±0.5 mm) 2" (Outer diameter 60.5 ±0.5 mm) 25A (Outer diameter 32.00 ±0.5 mm) 30A (Outer diameter 38.00 ±0.5 mm)	

*[Note] 1. Please refer to the dimensions of φD₁ (outer diameter).
2. Order 1½" adaptor for 40A, and 2" adaptor for 50A.

Related Products

Series	Appearance	Features
BAA+QB series		<ul style="list-style-type: none"> ● Air washer (air conditioning humidification) nozzle made by combining AA series nozzle (hollow cone spray nozzle) with QB series adaptor and ball parts. ● Easy installation. Just open an orifice (φ14.3 mm) into existing piping, then insert the nozzle. ● Includes a spring lock to firmly secure the nozzle in place. ● Clog-resistant structure.