

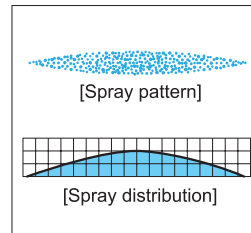
# Quick-installation Nozzles

**QB**



**[Features]**

- Flat spray pattern with stable distribution having tapered spray pattern edges.
- Easy to install. Just drill a hole (ø14.3 mm) on a pipe and insert a nozzle.
- Quick-detachable design helps to significantly reduce maintenance time.
- Spray direction is adjustable within 50 degrees as desired.
- Nozzle tips are color-coded by spray capacity for easy identification.
- 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.
- Caps are interchangeable for all sizes.
- 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

Flat Spray

**QB series**

QB series	
Structure	<ul style="list-style-type: none"> <li>• Comprises three parts: Nozzle tip, ball, and adaptor.</li> <li>• Worn-out nozzle tip can be replaced separately.</li> </ul>
Material	<ul style="list-style-type: none"> <li>• Main parts: FRPP</li> <li>• Packing: FEPM</li> <li>• O-ring: NBR</li> <li>• Spring clip and spring lock: S304</li> </ul>

**[QB for metal pipes]**

Pipe size (inch) <sup>*1</sup>	Color of adaptor	Dimensions (mm)						Mass (g)
		L1	L2	L3	L4	øD1	øD2	
1	Green	105	89	72	55	34	48	61
1*1/4	Light 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	

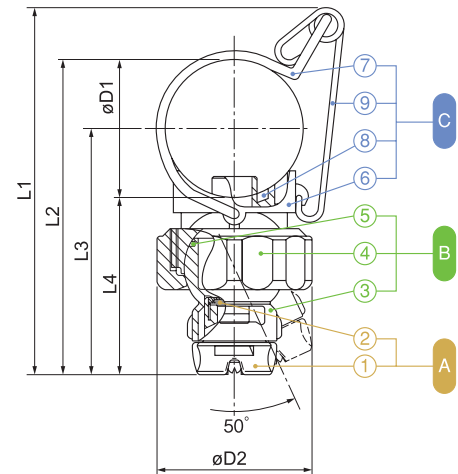
\*1) Pipes should be stainless steel pipes compliant with JIS G 3459.

**[QB for PVC pipes]**

Pipe size (ND) <sup>*2</sup>	Color of adaptor	Dimensions (mm)						Mass (g)
		L1	L2	L3	L4	øD1	øD2	
25A	Light Blue	103	87	71	55	32	48	61
30A	Light 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	

\*2) 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 tip** (① Nozzle tip 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<sup>\*3</sup>)

\*3) ⑨ is optional (at extra cost).

Spray angle code	Spray capacity code	Pipe size		Spray capacity (ℓ/min)				Mean droplet diameter (μm)	Free passage diameter (mm)	Color of nozzle tip		
		(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	Red		
	100			5.77	8.16	10.0	11.5			Grey		
	120	1*1/4,	30A,	6.93	9.80	12.0	13.9			2.3	Black	
	160			9.24	13.1	16.0	18.5			2.7	Dark Blue	
	180	1*1/2,	(40A),	10.4	14.7	18.0	20.8			2.8	2.8	Orange
	200			11.5	16.3	20.0	23.1					2.8
	240	or	or	13.9	19.6	24.0	27.7			3.2	Light Blue	
	280	2	(50A)	16.2	22.9	28.0	32.3			3.6	Red	
	390			22.5	31.8	39.0	45.0			4.3	Grey	

Quick-installation Nozzles  
**QB** series

Flat Spray

Spray angle code	Spray capacity code	Pipe size		Spray capacity (ℓ/min)				Mean droplet diameter (μm)	Free passage diameter (mm)	Color of nozzle tip
		(inch)	(ND)	0.1 MPa	0.2 MPa	0.3 MPa	0.4 MPa			
65	80	1, 1*1/4, 1*1/2,	25A, 30A, (40A),	4.62	6.53	8.00	9.24	460	1.8	
	100			5.77	8.16	10.0	11.5		2.2	
	120			6.93	9.80	12.0	13.9		2.4	
	160			9.24	13.1	16.0	18.5		2.8	
	180			10.4	14.7	18.0	20.8		3.0	
	200			11.5	16.3	20.0	23.1			
	240			13.9	19.6	24.0	27.7		3.6	
	280			16.2	22.9	28.0	32.3		3.8	
390	22.5	31.8	39.0	45.0	650	4.5				
40	80	or 2	or (50A)	4.62	6.53	8.00	9.24	560	2.2	
	100			5.77	8.16	10.0	11.5		2.5	
	120			6.93	9.80	12.0	13.9		2.8	
	160			9.24	13.1	16.0	18.5		3.2	
	180			10.4	14.7	18.0	20.8			3.3
	200			11.5	16.3	20.0	23.1		3.6	
	240			13.9	19.6	24.0	27.7		3.9	
	280			16.2	22.9	28.0	32.3		4.3	
390	22.5	31.8	39.0	45.0	800	5.1				

[Note] INVV and INJX series nozzle tips (p.23 and p.69) 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.


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


〈Example〉 ISVV 65 280 FRPP + ISB + 1\*1/4 QB FRPP + L

NOZZLE TIP PART	BALL PART	ADAPTOR PART	SPRING LOCK (OPTION)																	
ISVV 65 280 FRPP +	ISB +	1*1/4 QB FRPP +	L																	
<table border="1" style="font-size: small;"> <tr><th>Spray angle code</th></tr> <tr><td>80</td></tr> <tr><td>65</td></tr> <tr><td>40</td></tr> </table>	Spray angle code	80	65	40	<table border="1" style="font-size: small;"> <tr><th>Spray capacity code</th></tr> <tr><td>80</td></tr> <tr><td>∅</td></tr> <tr><td>390</td></tr> </table>	Spray capacity code	80	∅	390	<table border="1" style="font-size: small;"> <tr><th>Pipe size*4</th></tr> <tr><td>1" (Outer diameter 34.00 ±0.5 mm)</td></tr> <tr><td>1*1/4" (Outer diameter 42.7 ±0.5 mm)</td></tr> <tr><td>1*1/2" (Outer diameter 48.6 ±0.5 mm)</td></tr> <tr><td>2" (Outer diameter 60.5 ±0.5 mm)</td></tr> <tr><td>25A (Outer diameter 32.00 ±0.5 mm)</td></tr> <tr><td>30A (Outer diameter 38.00 ±0.5 mm)</td></tr> </table>	Pipe size*4	1" (Outer diameter 34.00 ±0.5 mm)	1*1/4" (Outer diameter 42.7 ±0.5 mm)	1*1/2" (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)	<table border="1" style="font-size: small;"> <tr><th>SPRING LOCK (OPTION)</th></tr> <tr><td>L</td></tr> </table>	SPRING LOCK (OPTION)	L
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\*4) 1. Please check the dimensions of øD1 (outer diameter).  
 2. Order 1\*1/2" adaptor for 40A, and 2" adaptor for 50A.

**Related Products**

Series	Appearance	Features
<p><b>BAA+QB series</b></p>		<ul style="list-style-type: none"> <li>● Air washer (air conditioning humidification) nozzle made by combining AA series nozzle (hollow cone spray nozzle) with QB series adaptor and ball parts.</li> <li>● Easy installation. Just open a hole (ø14.3 mm) into existing piping, then insert the nozzle.</li> <li>● Includes a spring lock to firmly secure the nozzle in place.</li> <li>● Clog-resistant structure.</li> </ul>

Series	Appearance	Features
<p><b>Ball Joint Adaptor                      QBP series</b></p>	 <p>(Photo below shows QBP adaptor with a spray nozzle)</p>	<ul style="list-style-type: none"> <li>● Spray direction is adjustable as desired with the ball joint.</li> <li>● Easy installation onto a pipe with a spring clip fastener.</li> <li>● Available in metal pipe sizes of 1", 1*1/4", 1*1/2", or 2" and in PVC pipe sizes of 25A, 30A, 40A, and 50A. (40A, 50A adaptors for PVC pipes are the same as 1*1/2", 2" adaptors for metal pipes.)</li> <li>● IKEUCHI's spray nozzles can be easily screwed in. R1/4, R3/8, or R1/2 threaded nozzle is attachable.</li> <li>● Main material: FRPP</li> </ul>