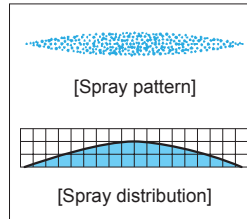




- Flat spray pattern with stable distribution and tapered spray pattern edges.
- Easy to install. Just drill a hole (ø14.3 mm) into the pipe and insert the nozzle.
- Quick-detachable design helps to reduce maintenance time significantly.
- Spray direction is adjustable within 50 degrees as desired.
- 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 the pipe and adaptor for pressures of up to 0.4 MPa.
- Double locked with an optional fitting spring lock.



[STANDARD PRESSURE]
0.3 MPa

[APPLICATIONS]

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

Structure	<ul style="list-style-type: none"> • Includes a nozzle tip, ball section, and adaptor. • Worn-out nozzle tips can be replaced separately.
Material	<ul style="list-style-type: none"> • Main parts: FRPP • Packing: FEPM • O-ring: NBR • Spring clip and lock: S304

[QB for metal pipes]

Pipe size (inch) ^{*1}	Color of adaptor	Dimensions (mm)						Weight (g)
		L1	L2	L3	L4	øD1	øD2	
1	Green	105	89	72	55	34	48	61
1 1/4	Yellow	114	98	76	55	42.7	48	
1 1/2	Orange	120	104	79	55	48.6	48	
2	Blue	132	116	85	55	60.5	48	

*1) Use stainless steel pipes compliant with JIS G 3459.

[QB for PVC pipes]

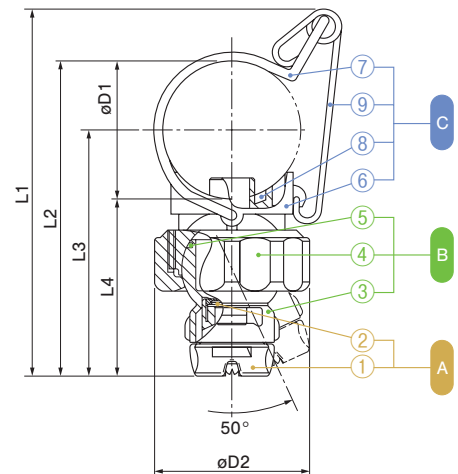
Pipe size (ND) ^{*2}	Color of adaptor	Dimensions (mm)						Weight (g)
		L1	L2	L3	L4	øD1	øD2	
25A	Green	103	87	71	55	32	48	61
30A	Yellow	109	93	74	55	38	48	
40A	Orange	120	104	79	55	48.6	48	
50A	Blue	132	116	85	55	60.5	48	

*2) Use 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 material and nozzle code.

DRAWING



A) Nozzle tip (① Nozzle tip ② Packing [FEPM])

B) Ball section (③ Ball adaptor ④ Cap ⑤ O-ring [NBR])

C) Adaptor (⑥ Adaptor ⑦ Spring clip ⑧ O-ring [NBR] ⑨ Spring lock^{*3})

*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	
	100			5.77	8.16	10.0	11.5			
	120			6.93	9.80	12.0	13.9			
	160			9.24	13.1	16.0	18.5			
	180	1 1/4 (1*1/4),	30A,	10.4	14.7	18.0	20.8			
	200			11.5	16.3	20.0	23.1			
	240	or	or	13.9	19.6	24.0	27.7			
	280			16.2	22.9	28.0	32.3			
	390			22.5	31.8	39.0	45.0			
							610			

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*1/4), 1 1/2 (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	650	3.0	
	200			11.5	16.3	20.0	23.1		3.3	
	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	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	800	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	5.1					

[Note] IN-series nozzle tips (including INVV on page 21, INJX on page 67) are not compatible with the QB series.

CAUTIONS

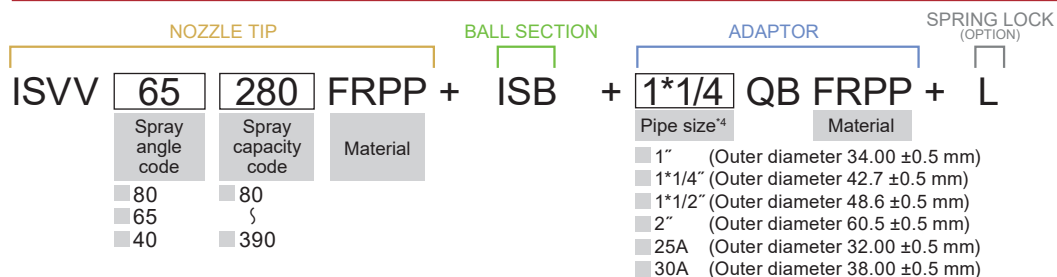
Maximum operating pressure is 0.4 MPa.

Do not use under conditions where sudden or drastic changes in water pressure may occur.

HOW TO ORDER


To inquire about or order a specific nozzle please refer to this coding system.

Example: ISVV 65280 FRPP + ISB + 1*1/4 QB FRPP + L



*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

Product	Picture	Features																																				
Hollow Cone Spray Nozzle BAA+QB Series		<ul style="list-style-type: none"> • Make an air washer nozzle for air conditioning humidification, by combining a AA series nozzle, a hollow cone spray nozzle, with a QB series adaptor and ball parts. • Includes a spring lock to firmly secure the nozzle in place. • No-whirler design with a large free passage diameter minimizes clogging. <p>[Note] The spray direction is NOT adjustable, the ball is fixed in place.</p>																																				
Ball Joint Adaptor QBP Series	 <p>(Photo below shows QBP adaptor with a spray nozzle)</p>  <p>Easy to attach a nozzle!</p>	<ul style="list-style-type: none"> • IKEUCHI's spray nozzles with R1/4, R3/8, or R1/2 thread are attachable. • The ball joint makes the spray direction adjustable within 50 degrees as needed. • Easy installation onto a pipe with a spring clip fastener. • Main material: FRPP <table border="1"> <thead> <tr> <th colspan="4">Pipe Size</th> <th>Ball Thread Size</th> </tr> </thead> <tbody> <tr> <td rowspan="4">QBP for metal pipes (inch)</td> <td>1</td> <td rowspan="4">QBP for PVC pipes (ND)*</td> <td>25A</td> <td rowspan="4">Rc1/4, Rc3/8, or Rc1/2</td> </tr> <tr> <td>1 1/4</td> <td>30A</td> </tr> <tr> <td>1 1/2</td> <td>40A</td> </tr> <tr> <td>2</td> <td>50A</td> </tr> </tbody> </table> <p>*40A, 50A adaptors for PVC pipes are the same as 1 1/2", 2" adaptors for metal pipes.</p> <p>HOW TO ORDER QBP ADAPTOR</p> <p>Example: 1 x 1/4F QBP FRPP</p> <table border="1"> <tr> <td>1</td> <td>x</td> <td>1/4F</td> <td>QBP FRPP</td> </tr> <tr> <td>Pipe size</td> <td></td> <td>Ball thread size*</td> <td>Material</td> </tr> <tr> <td>1</td> <td></td> <td>1/4F</td> <td></td> </tr> <tr> <td>1*1/4</td> <td></td> <td>3/8F</td> <td></td> </tr> <tr> <td>1*1/2 (40A)</td> <td></td> <td>1/2F</td> <td></td> </tr> </table> <p>**"F" indicates female thread ("Rc" of the ISO standard), e.g. 1/4F = Rc1/4.</p>	Pipe Size				Ball Thread Size	QBP for metal pipes (inch)	1	QBP for PVC pipes (ND)*	25A	Rc1/4, Rc3/8, or Rc1/2	1 1/4	30A	1 1/2	40A	2	50A	1	x	1/4F	QBP FRPP	Pipe size		Ball thread size*	Material	1		1/4F		1*1/4		3/8F		1*1/2 (40A)		1/2F	
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1*1/2 (40A)		1/2F																																				
IS PLUG		<ul style="list-style-type: none"> • The IS plug can be attached to the QB series instead of the QB nozzle tip. • When ordering, use the item name: IS PLUG PP (FEPM). FEPM packing is included. 																																				