

## Characteristics of Spiral Baffle Boards

- Cooling water in spirals can cool down the core more efficiently than those on normal baffle boards.
- Since it is plastic, rust will not be plugged in the cooling water path.
- It can be cut (including tip shape) to fit into cooling space. On the other hand, it does not bend easily since it includes glass fiber (Pull strength about 490N/mm<sup>2</sup>{50kgf/mm<sup>2</sup>}).

## Notes

Water leakage sometimes occurs even when the baffle boards are installed according to the recommended dimensions in the below installation hole forming example.

Conceivable causes are as follows.

- Deformation of the mounting board
- Large distance between the fixing position of the mounting board and the spiral baffle board (The retaining force is reduced.)
- Random variations between O-rings

In such a case, increase the number of fixing points and also seal the periphery of the mounting location using an O-ring, for example. Make the mounting hole somewhat shallower than the recommended value, and perform adjustment using additional forming, for example.

## Example of Using Spiral Baffle Boards

**Separate type (WRCAN-WRCTN)**

• Install partition section of WRCTN in vertical direction against cooling space. (refer to section A)

• Install partition sections of WRCAN and WRCTN in identical direction. (refer to section B)

**Straight type (WRCBN)**

• Install WRCBN in vertical direction against cooling water. (refer to section C)

• Cooling effect declines if it is not in vertical direction against cooling water.

**Straight type (WRCCN)**

• Install plate section (section A) of WRCCN in vertical direction against cooling water. (refer to section A)

## Example of Installation Hole Addition (Recommended value)

**Separate type (WRCAN/WRCTN)**

Part Number Type	D	Addition method D <sub>2</sub>	A
WRCAN	8	15	4.2
	10	18	
	12	22	
	16	25	
	20	30	
25	35		

**Straight type (WRCBN)**

Part Number Type	D	Recommended tapered screw plugs
WRCBN	8	MSWT1(PT1/8)
	10	MSWT2(PT1/4)
	12	MSWT3(PT3/8)
	16	MSWT4(PT1/2)
	20	MSWT6(PT3/4)
	25	MSWT6(PT3/4)

**Straight type (WRCCN)**

Part Number Type	D	Recommended tapered screw plug
WRCCN	8	MSWT1(PT1/8)
	10	MSWT2(PT1/4)
	12	MSWT3(PT3/8)
	16	MSWT4(PT1/2)
	20	MSWT6(PT3/4)
	25	MSWT6(PT3/4)

Separate type

**WRCAN (Baffle boards)**

Item	Components	Material	No. of pieces
①	Baffle boards	PA6 (Nylon) + 30% Glass Fiber	1
②	O-rings	Fluoric rubber	1

**WRCTN (Partition plates for WRCAN)**

Item	Components	Material	No. of pieces
①	Partition plate	PA6 (Nylon) + 30% Glass Fiber	1
②	O-rings	Fluoric rubber	2

Use it with WRCAN as a set.

Straight type

**WRCBN**

Material: PA6 (Nylon) + 30% Glass Fiber

**WRCCN**

Material: PA6 (Nylon) + 30% Glass Fiber

### Separate Type

D <sub>1</sub>	D <sub>2</sub>	T	R	H	P	Components ② O-rings	Part Number		U/Price 1~9			
							Type	D	L Selection			
8	15	1.5	2	2	20	P10 P12 P16 P20 AS119 AS121	WRCAN (Baffle boards)	8	100 200 300			
10	18	1.8	2.5	2.5								
11	22	2	3	3								
15	25	3	4	4								
18	30	5	5	5								
25	35	3.5	6	6								
									<b>Quotation</b>			

D <sub>3</sub>	D <sub>2</sub>	T	ℓ	Components ② O-rings	Part Number		U/Price 1~9					
					Type	D	L Selection					
6	15	1.2	4.1	P8 P10 P12 P16 P20 AS119	WRCTN (Partition plates)	8	25 30 35 40					
8	18	1.5										
10	22	1.6										
13	25	2										
17	30	2										
22	35	2.4										
									<b>Quotation</b>			

### Straight type

R	H	P	Part Number		U/Price 1~9							
			Type	D	L Selection							
2	2	20	WRCBN	8	96 196 296							
2.5	2.5											
3	3											
4	4											
5	5											
6	6											
									<b>Quotation</b>			

T	R	H	P	Part Number		U/Price 1~9						
				Type	D	L Selection						
1.5	2	2	20	WRCBN	8	100 200						
1.8	2.5	2.5										
2	3	3										
3	4	4										
3	5	5										
3.5	6	6										
									<b>Quotation</b>			

Keep water temperature under 80°C.

Order **Part Number** - L - A  
 WRCAN 16 - 200  
 WRCCN 20 - 100 - A42

Cooling Components  
Joints · Hoses  
Cooling Inside of Mold

1123

1124