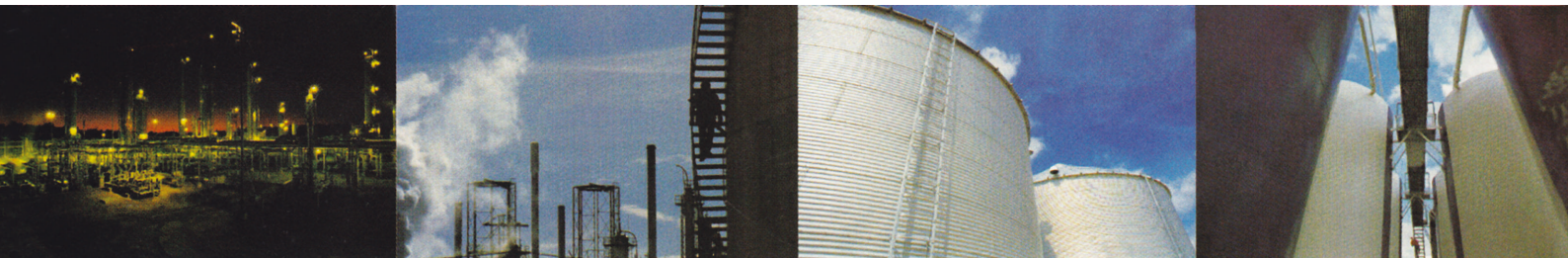




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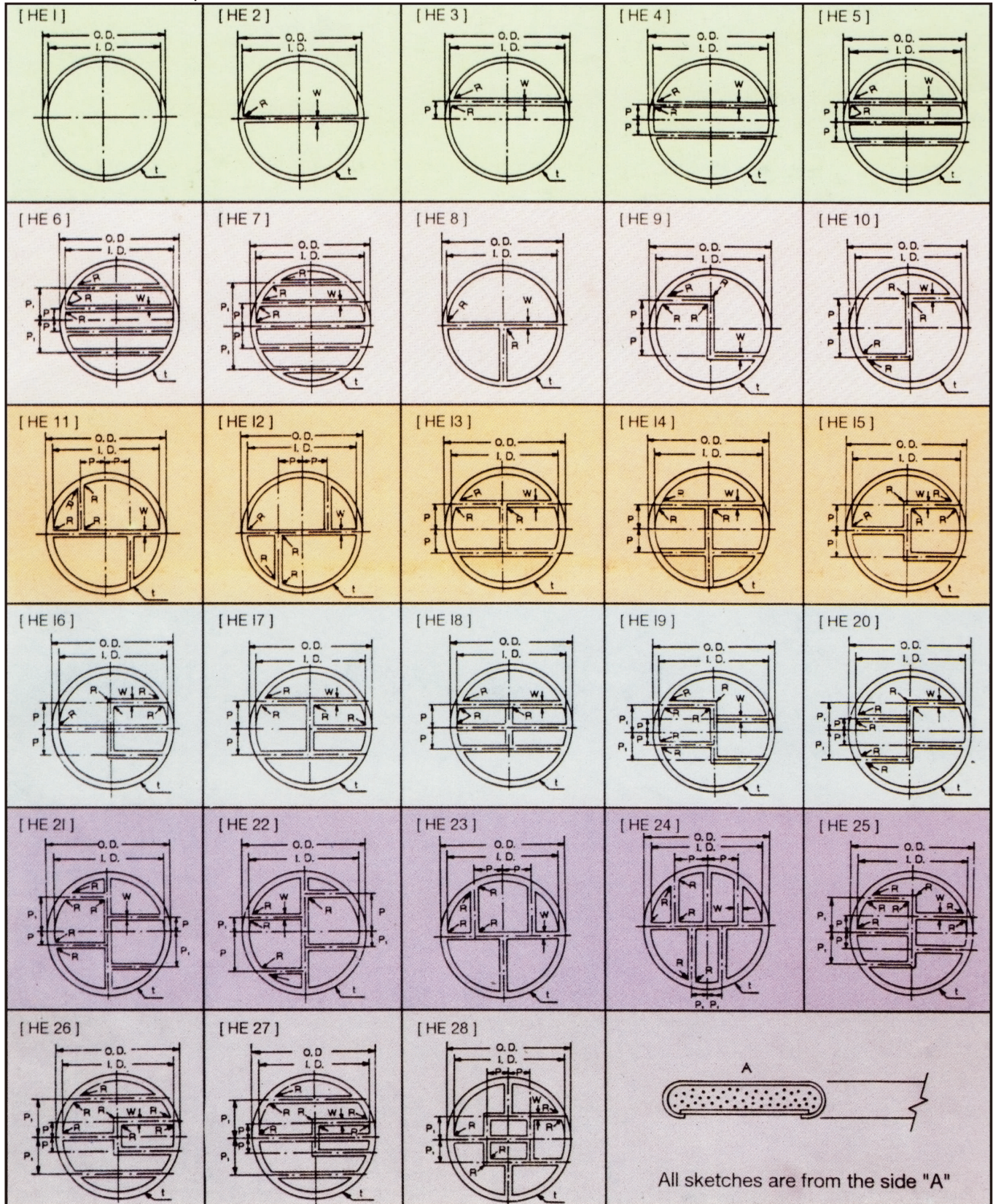
**PACKING & GASKETS**



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# TYPICAL SHAPES OF HEAT EXCHANGER GASKETS

Complicated Partition Bars of HE Gaskets as illustrated below



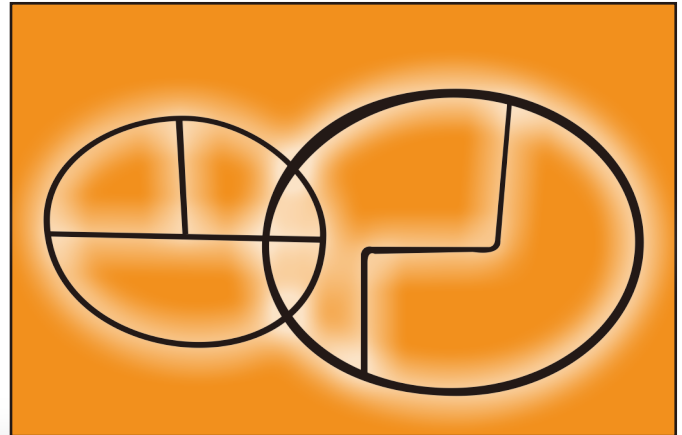
## DOUBLE JACKETED ASBESTOS FILLED METAL GASKET

An asbestos millboard or compressed asbestos is wholly covered with thin metals jacket.

Available in circular, non circular or irregular shapes.

For heat exchangers, path ribs are commonly attached.

Jackets are made in a variety of metal.



Application : Heat exchanger, Autoclave, Boiler, Valve bonnet, Pipe flange.

Service temperature : up to 530°C

Service pressure : up to 60 Kg/cm<sup>2</sup>.

To seal : Steam, Lubricants, Hydrocarbon, Water, Hot water, Organic solvents, Cryogenic lines, Oxygen gas, Low temperature gases, LPG.

Dimensional data:

Standard thickness : 3.0 mm

R : 10 mm min.

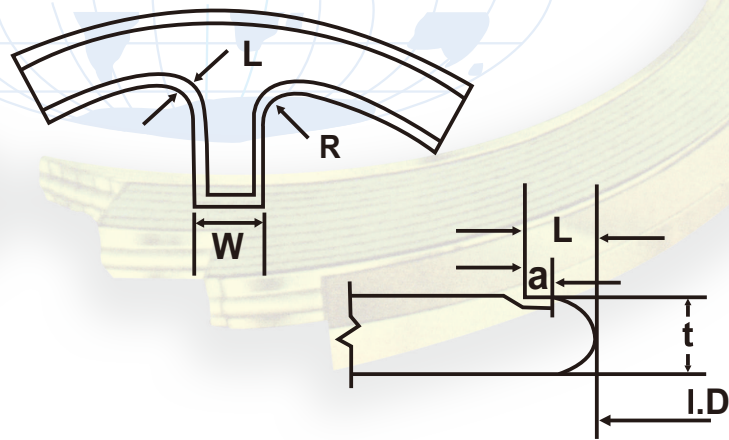
W : 7 mm min.

I : 2.0 - 3.0 mm

L : 2.5 mm min.

a : 2.0 mm min

Metal thickness : 0.4 mm

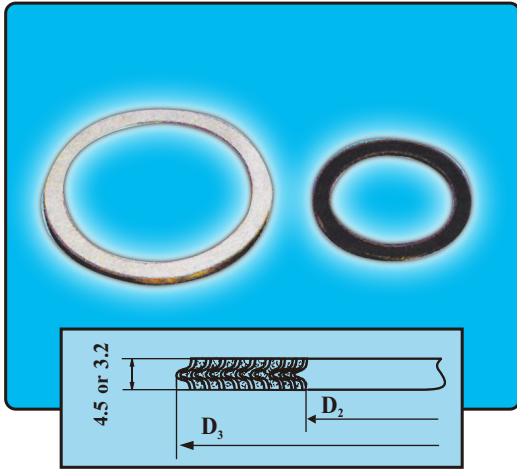


### Standard Material Service

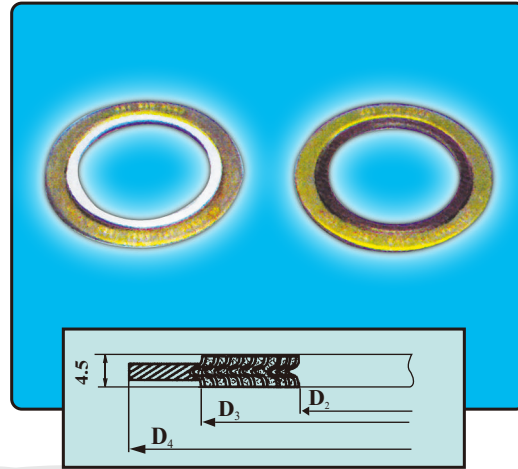
Material of jacket	Code	Service Temp.	Service Pressure
Soft Iron	D	530°C max.	20 - 60 KgF/cm <sup>2</sup>
Low Carbon Steel	S	530°C	20 - 60 KgF/cm <sup>2</sup> max.
Stainless Steel	SS 304 SS 316	530°C max.	20 - 60 KgF/cm <sup>2</sup>
Copper	CU	400°C	20 - 60 KgF/cm <sup>2</sup>
Aluminium	AL	400°C max.	20 - 60 KgF/cm <sup>2</sup>

# SPIRAL WOUND GASKETS

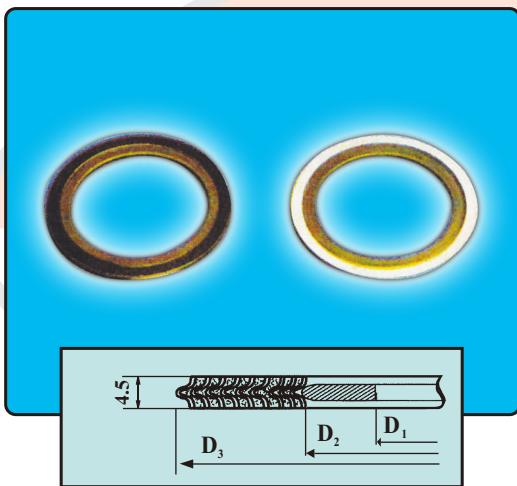
INGI SWG - 1808 (Basic Type)



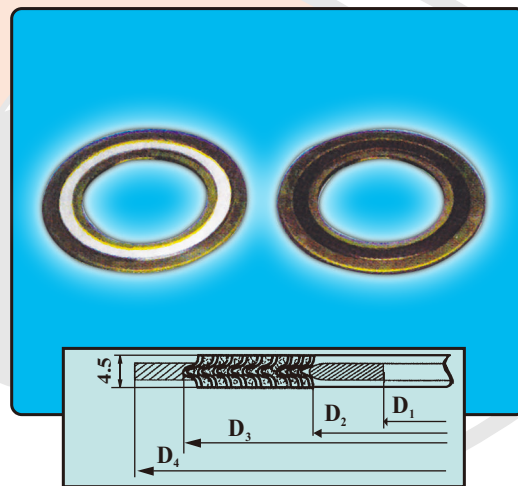
INGI SWG - 1804 - OR(Outer-Ring Type)







INGI SWG - 1806 - IR (Inner-Ring Type)

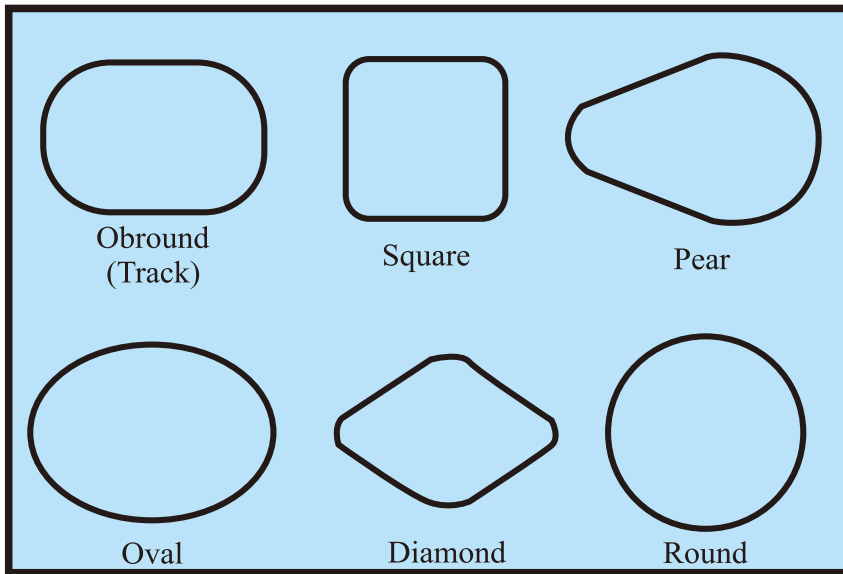


INGI SWG - 1803 - OIR (Outer-Inner Ring Type)

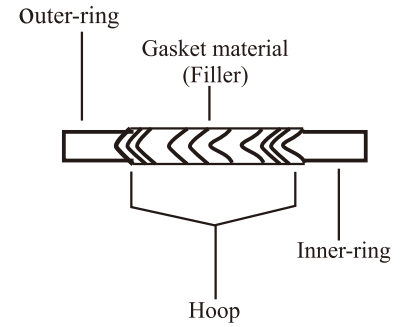


INGI STYLE	CROSS SECTION	NAME
SWG - 1808		Basic type of spiral wound gasket
SWG - 1806 - IR		Spiral wound gasket with inner ring
SWG - 1804 - OR		Spiral wound gasket with outer ring
SWG - 1803 - OIR		Spiral wound gasket with outer and inner ring

## SHAPES OF SPIRAL WOUND GASKET



## CONSTRUCTION OF SPIRAL WOUND GASKET



## Materials

Hoop	Filler	Inner Ring	Outer Ring
SUS 304	Non Asbestos paper	SPCC	SPCC
SUS 304L	Asbestos paper	SUS 304	SUS 304
SUS 316	PTTE Tape	SUS 304L	SUS 316
SUS 316L	Dechlorinated	SUS 316	SUS 430
SUS 321	Asbestos paper	SUS 316L	Titanium
SUS 430	Expanded Graphite	SUS 310	
Titanium	Tape	SUS 321	
Nickel		SUS 347	
Monel		SUS 430	
Inconel		Titanium	
		Monel	

### NOTE:

#### 1. THICKNESS STANDARD

- \* Gasket : 4.5 mm
- \* Inner Ring : 3.2 mm
- \* Outer Ring : 3.2 mm

#### 2. SERVICE TEMPERATURE

- \* - 200°C to + 580°C

#### 3. PRESSURE UNIT

- \* 300 Kgf/Cm<sup>2</sup>

#### 4. STANDARD GASKET SIZES

- \* Available for ANSI, API, JIS, JPI, MSS, and DIN Flanges

#### 5. OTHER STANDARDS

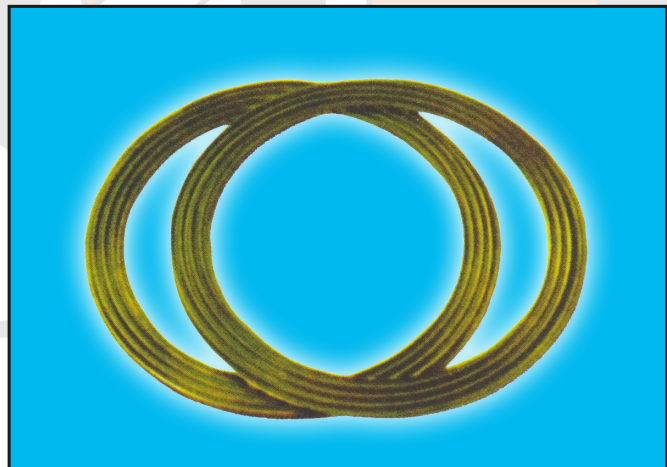
- \* Consult our engineer for your special needs

## ASBESTOS FILLED CORRUGATED METAL GASKET

Asbestos filler covered with corrugated metal jacket. Better in resilience and sealability than a flat type, because its corrugated surface. Available in circular and slightly non-circular shape.

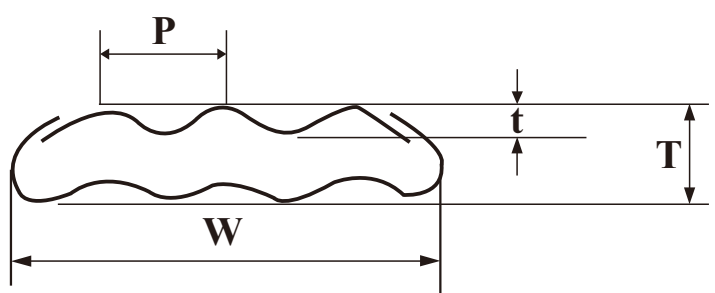
- Application : Heat exchanger, Autoclave, Boiler, etc.
- Service temperature : up to 530 °C
- Service pressure : up to 60 Kgf/cm<sup>2</sup>.
- To seal : Steam, Water, Hot water, Hydrocarbon, Lubricants, Organic solvents, Cryogenic lines, etc.

Compliance with specification:  
API 601 (Double Jacketed Corrugated)



### Dimensional data:

- T (Gasket thickness) : 3.0 mm min.
- W (Gasket width) : 15.0 mm min.
- t (Corrugation height) : 1.0 ± 0.3 mm
- P (Corrugation pitch) : 6.0 mm



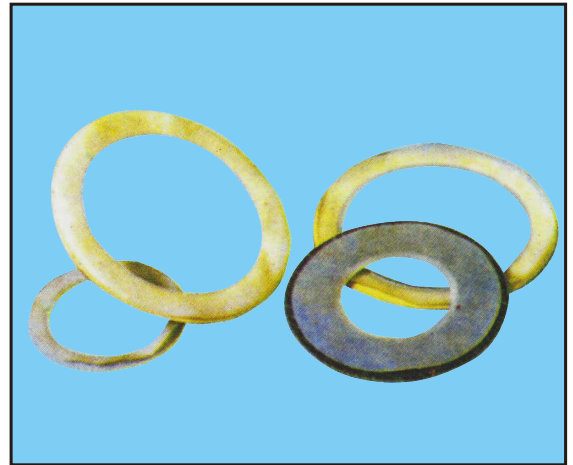
Material, Ukuran dan Bentuk dapat disesuaikan berdasarkan permintaan

# INGI - 0688 ENVELOPE GASKET

## Envelope Gasket

Combined the advantages of TFE with those of other materials such as compressed asbestos sheet, asbestos beater sheet and white asbestos paper put on both side of asbestos sheet.

Cushioning material provides resilience and TFE protects it from chemical attack by contacting fluids.



## Application:

Strong acids (sulfuric acid, fluoric acid, hydrochloric acid, etc).

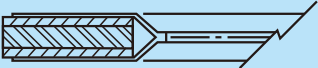


Strong alkalis, cryogenic fluids (ethylene, LPG) oxygen, chlorine gas.

Organic solvents (edc, bix, etc).

## Especially recommended for:

1. Piping systems and equipment lined with glass, rubber or plastic.
2. Glass or porcelaine flanges.
3. Where contamination or coloring is not allowed.

Service Temperature	Up to 220 °C
Service Pressure	Up to 25 kg/cm <sup>2</sup>

Type	Construction	Description
0688-A		Envelope gasket split type
0688-B		Envelope gasket shield type
0688-C		Envelope gasket milled type

## Standard gasket sizes

Available for ANSI, API, JIS, MSS and DIN flanges.

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