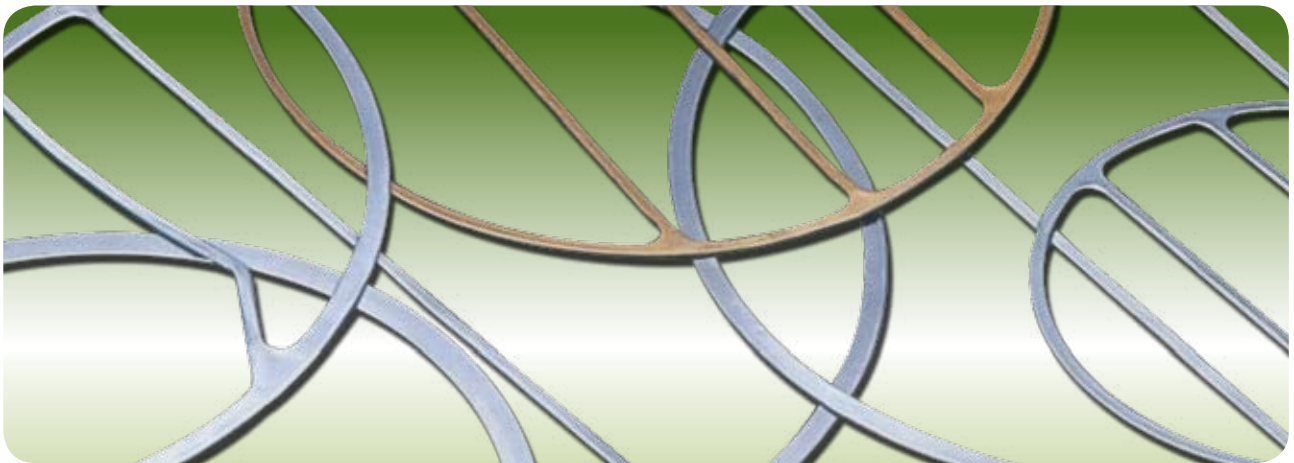


SEMI METALLIC GASKET | DOUBLE JACKETED GASKET



KUKIL INNTOT metal jacketed gaskets are specially designed and widely used on smooth flange applications and are ideal for Heat Exchangers, Auto Claves, Columns, Flue Stacks, Boilers, Gas Mains, Valve Bonnets. Pumps and similar services.

They comprise a soft pliable filler core surrounded by a metal jacket which may totally or partially enclose the filler. This metal jacket provides the mechanical strength to contain the filler and is selected from material which is suitable to resist chemical attack from the fluid to be sealed and also the operating temperature. The combination of these two components produces a gasket which is resilient and successful in a wide range of services particularly in the Petrocarbon Industries.

KUKIL INNTOT metal jacketed gaskets are available in a comprehensive selection of materials and are custom built to clients specific design requirements and are almost without any size limitations. Each gasket is individually hand made with meticulous care, by our highly skilled craftsmen, to ensure ease of fitting and long service life.

• STANDARD MATERIALS OF JACKET METALS

Soft Iron, Low Carbon Steel, Stainless Steel(304, 316, 321, 410, etc.) Copper, Bronze, Monel, 5Cr-1/2Mo, Aluminium, Hastelloy, Titanium, Inconel, Nickel, etc.

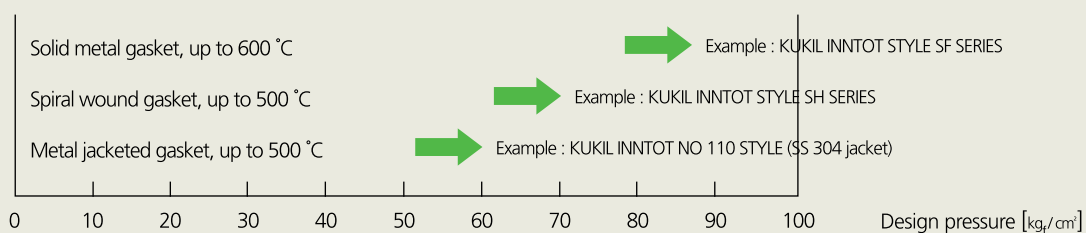
• SOFT FILLERS

GRAFLEX, Non-Asbestos, P.T.F.E, Rubber, etc.

• Key to select gasket material

The gasket material is determined mainly by temperature and pressure.

The illustration given at the right side is a guide for selection gasket material.



Type	Section	No
Double jacketed type		110
Double shell type		120
Corrugated double jacketed type		130
Corrugated double jacketed metal filler type		140
Single corrugate type		150

Type	Section	No
Round jacketed type		160
Semi jacketed type		170
Single jacketed totally enclosed type		180
Special double jacketed open outside edge type		190

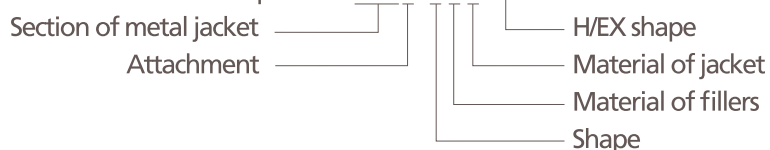
Attachment	Shapes	Material		Heat Exchanger Shapes				
		Fillers	Jacket					
None	Z	Round	R	Non asbestos millboard	N	Soft iron	D	see page 48
GRAFLEX	G	Round with centering plate	T	Compressed non-asbestos fiber	N ₂	Low carbon steel	S	
Special P.T.F.E tape	P	Round with partition bar	Y	Cerabestos fiber	C	Copper	C	
		Cone	C	P.T.F.E sheet	P	Aluminium	A	
		Oblong	L	GRAFLEX	G	Bronze	B	
		Square	S	Synthetic rubber	R	SS 304	E	
		Pear	P	Glass Cloth	GL	SS 304L	L	
		Diamond	D	GRAFLEX - 220TM	TM	SS 310S	O	
		Oval	O	GRAFLEX - 210FM	FM	SS 316	G	
				GRAFLEX - 200CM	CM	SS 316L	Q	
						SS 317L	W	
						SS 321	J	
						SS 347	K	
						SS 410	V	
						SS 430	U	
						5Cr-1/2Mo	F	
						Monel	M	
						Titanium	T	
						Hastelloy	H	
						Inconel	I	
						Nickel	N	
						Al-bronze	R	
						Duplex	Du	

Notes

1. Customers may describe number of section, attachment, shape, material of filler, material of jacket and heat exchanger shapes by symbol mark as mentioned in _____ .

Example : K/# 110G-YNS-C,

Example : K/# 140Z-RNE

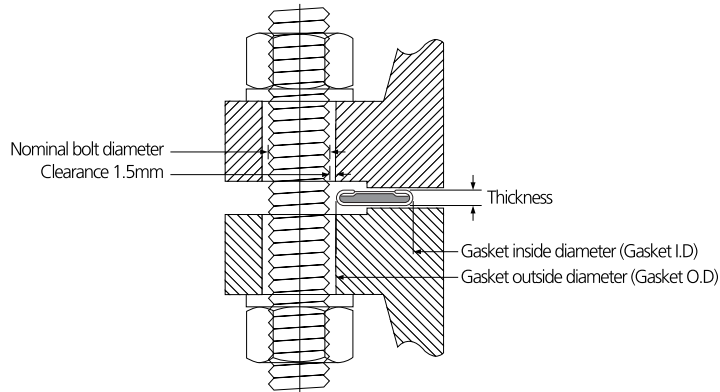


2. Standard nominal thickness in 3.2mm and pitch size of corrugation is 3.2, 4.5, 6.5mm.

3. Heat resistance of filler materials, see page 98.

■ Size of corrugated double jacketed gasket : ASME B 16.20 - 2007

Double jacketed Non - asbestos filled gasket for ASME/ANSI B16.5 Flanges



• Tolerance (1/2" ~ 24")

Description	Tolerance [mm]
1) Thickness	+0.8
	- 0.00
2) Gasket I.D	+1.5
	- 0.00
3) Gasket O.D	+1.5
	- 0.00

• ANSI B16.5 Flanges

(Unit : mm)

FLANGE SIZE (NPS)	GASKET INSIDE DIAMETER	GASKET OUTSIDE DIAMETER by CLASS							FLANGE SIZE (NPS)
		150	300	400	600	900	1500	2500	
1/2"	22.4	44.5	50.8	(a)	50.8	(a)	60.5	66.8	1/2"
3/4"	28.7	54.1	63.5	(a)	63.5	(a)	66.8	73.2	3/4"
1"	38.1	63.5	69.9	(a)	69.9	(a)	76.2	82.6	1"
1 1/4"	47.8	73.2	79.5	(a)	79.5	(a)	85.9	101.6	1 1/4"
1 1/2"	54.1	82.6	92.2	(a)	92.2	(a)	95.3	114.3	1 1/2"
2"	73.2	101.6	108.0	(a)	108.0	(a)	139.7	143.0	2"
2 1/2"	85.9	120.7	127.0	(a)	127.0	(a)	162.1	165.1	2 1/2"
3"	108.0	133.4	146.1	(a)	146.1	165.1	171.5	193.8	3"
4"	131.8	171.5	177.8	174.8	190.5	203.2	206.5	231.9	4"
5"	152.4	193.8	212.9	209.6	238.3	244.6	251.0	276.4	5"
6"	190.5	219.2	247.7	244.6	263.7	285.8	279.4	314.5	6"
8"	238.3	276.4	304.8	301.8	317.5	355.6	349.3	384.3	8"
10"	285.8	336.6	358.9	355.6	397.0	431.8	431.8	473.2	10"
12"	342.9	406.4	419.1	416.1	454.2	495.3	517.7	546.1	12"
14"	374.7	447.8	482.6	479.6	489.0	517.7	574.8	(a)	14"
16"	425.5	511.3	536.7	533.4	562.1	571.5	638.3	(a)	16"
18"	489.0	546.1	593.9	590.6	609.6	635.0	701.8	(a)	18"
20"	533.4	603.3	651.0	644.7	679.5	695.5	752.6	(a)	20"
24"	641.4	714.5	771.7	765.3	787.4	835.2	898.7	(a)	24"

Notes

^aThere are no Class 400 flanges NPS though NPS 3 (use Class 600). Class 900 flanges NPS though NPS 2 (use Class 1500), or Class 2500 flanges NPS 14 and larger

Double jacketed gasket dimensions for ASME B 16.47 Series A(or MSS SP-44) Flanges and ASME B 16.47 Series B(or API Standard 605) Flanges.

• Tolerance (26" ~ 60")

Description	Tolerance [mm]
1) Thickness	+ 0.8 - 0.00
2) Gasket I.D	+3.30 - 0.00
3) Gasket O.D	+3.30 - 0.00

ASME B 16.47 Series A(or MSS SP-44) Flanges

(Unit : mm)

FLANGE SIZE (NPS)	GASKET INSIDE DIAMETER	GASKET OUTSIDE DIAMETER by CLASS					FLANGE SIZE (NPS)
		150	300	400	600	900	
26"	673.1	771.7	831.9	828.8	863.6	879.6	26"
28"	723.9	828.8	895.4	889.0	911.4	943.1	28"
30"	774.7	879.6	949.5	943.1	968.5	1006.6	30"
32"	825.5	936.8	1003.3	1000.3	1019.3	1070.1	32"
34"	876.3	987.6	1054.1	1051.1	1070.1	1133.6	34"
36"	927.1	1044.7	1114.6	1114.6	1127.3	1197.1	36"
38"	977.9	1108.2	1051.1	1070.1	1101.9	1197.1	38"
40"	1028.7	1159.0	1111.3	1124.0	1152.7	1247.9	40"
42"	1079.5	1216.2	1162.1	1174.8	1216.2	1298.7	42"
44"	1130.3	1273.3	1216.2	1228.9	1267.0	1365.3	44"
46"	1181.1	1324.1	1270.0	1286.0	1324.1	1432.1	46"
48"	1231.9	1381.3	1320.8	1343.2	1387.6	1482.9	48"
50"	1282.7	1432.1	1374.9	1400.3	1444.8	(b)	50"
52"	1333.5	1489.2	1425.7	1451.1	1495.6	(b)	52"
54"	1384.3	1546.4	1489.2	1514.6	1552.7	(b)	54"
56"	1435.1	1603.5	1540.0	1565.4	1603.5	(b)	56"
58"	1485.9	1660.7	1590.8	1616.2	1660.7	(b)	58"
60"	1536.7	1711.5	1641.6	1679.7	1730.5	(b)	60"

ASME B 16.47 Series B(or API Standard 605) Flanges

(Unit : mm)

FLANGE SIZE (NPS)	GASKET INSIDE DIAMETER	GASKET OUTSIDE DIAMETER by CLASS					FLANGE SIZE (NPS)
		150	300	400	600	900	
26"	673.1	722.4	768.4	743.0	762.0	835.2	26"
28"	723.9	773.2	822.5	797.1	816.1	898.7	28"
30"	774.7	824.0	882.7	854.2	876.3	955.8	30"
32"	825.5	877.8	936.8	908.1	930.4	1013.0	32"
34"	876.3	931.9	990.6	958.9	993.9	1070.1	34"
36"	927.1	984.3	1044.7	1019.3	1044.7	1120.9	36"
38"	977.9	1041.4	1095.5	1070.1	1101.9	1197.1	38"
40"	1028.7	1092.2	1146.3	1124.0	1152.7	1247.9	40"
42"	1079.5	1143.0	1197.1	1174.8	1216.2	1298.7	42"
44"	1130.3	1193.8	1247.9	1228.9	1267.0	1365.3	44"
46"	1181.1	1252.5	1314.5	1286.0	1324.1	1432.1	46"
48"	1231.9	1303.3	1365.3	1343.2	1387.6	1482.9	48"
50"	1282.7	1354.1	1416.1	1400.3	1444.8	(b)	50"
52"	1333.5	1404.9	1466.9	1451.1	1495.6	(b)	52"
54"	1384.3	1460.5	1527.3	1514.6	1552.7	(b)	54"
56"	1435.1	1511.3	1590.8	1565.4	1603.5	(b)	56"
58"	1485.9	1576.3	1652.5	1616.2	1660.7	(b)	58"
60"	1536.7	1627.1	1703.3	1679.7	1730.5	(b)	60"

Notes

The gasket thickness tolerance is +0.8mm, -0.0mm.

^aFor gaskets NPS 26 through NPS 60, the outside diameter and inside diameter tolerance are +3.3mm, -0.0mm.

^bThere are no Class 900 flanges NPS 50 and larger.