

**METAL JACKETED GASKET      Style No: TMD**

**Metal Jacketed Gasket** are the most basic type of semi-metallic gaskets combing the high pressure suitability and blow out resistance of metallic materials with the improved compressibility of soft materials. Metal jacketed gaskets offer an economical seal where sealing faces are narrow and can be produced in a variety of shapes, making them a good option for heat exchanger jointing.

**Following Jacket materials are available:**

- |           |           |
|-----------|-----------|
| Soft Iron | Brass     |
| SS304     | Aluminium |
| SS316     | Nickel    |
| SS316L    | Titanium  |
| SS321     | Monel     |
| SS410     | Inconel   |
| Copper    |           |

**Following Insert materials are available:**

- Graphite, Mica, Non-Asbestos, Asbestos



**Sections of Metal Jacketed Gasket**

**General Properties**

- Economical
- Easy to handle and install
- Suitable for high temperatures
- Suitable for narrow flanges
- Good blow-out resistance

**Applications**

- Heat exchangers
- Exhaust gases
- Valve bonnet gaskets
- Narrow flanges



**Section (1)**

**Section (2)**

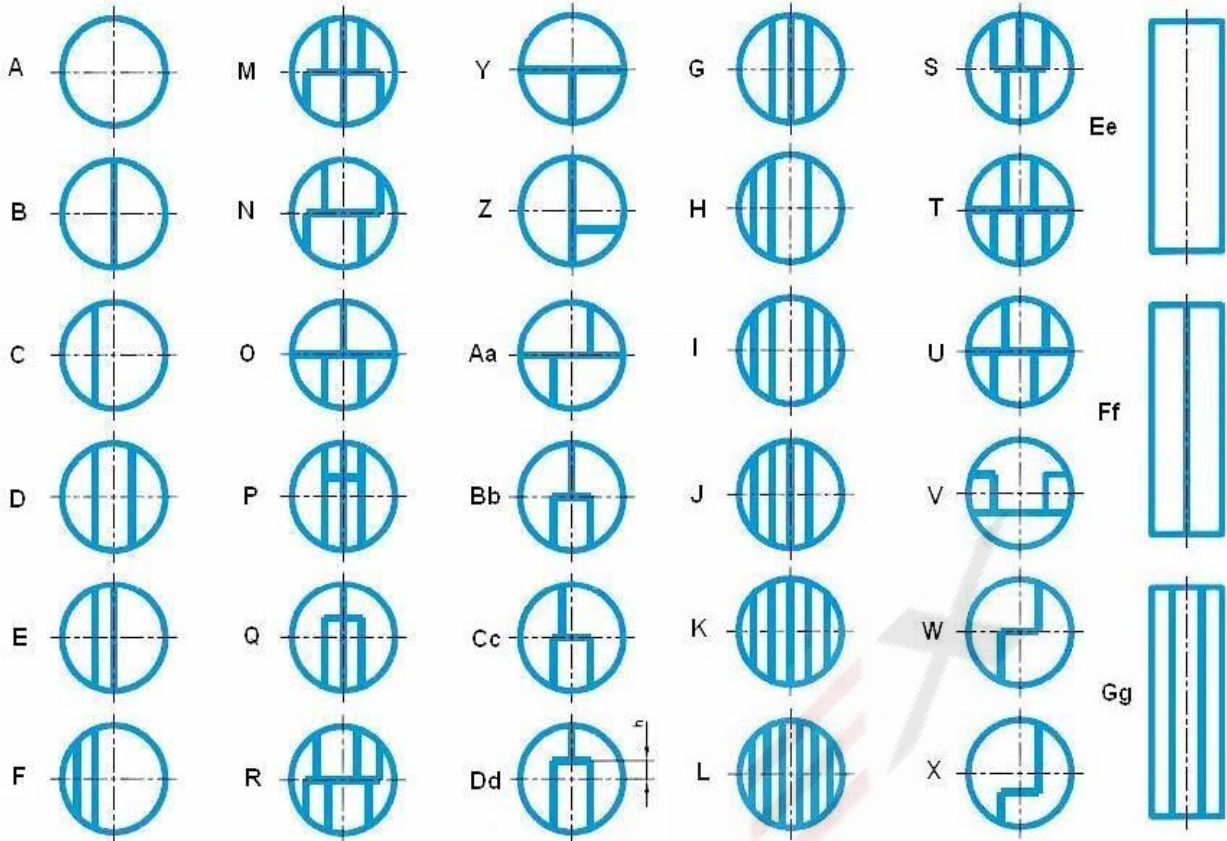


**Section (3)**

**Section (4)**



**General Types of Metal Jacketed Gasket**



**Dimensions for Metal Jacketed Gaskets per ASME B16.20 to Suit ASME B16.5 Flanges**

Nominal Pipe Size (NPS)	Gasket Inside Diameter (ID) (1)	Gasket Outside Diameter (OD) by Class (1)						
		150	300	400 (2)	600	900 (3)	1500	2500 (4)
		mm	mm	--	mm	mm	mm	mm
1/2	22.4	44.5	50.8	--	50.8	--	60.5	66.8
3/4	28.7	54.1	63.5	--	63.5	--	66.8	73.2
1	38.1	63.5	69.9	--	69.9	--	76.2	82.6
1 1/4	47.8	73.2	79.5	--	79.5	--	85.9	101.6
1 1/2	54.1	82.6	92.2	--	92.2	--	95.3	114.3
2	73.2	101.6	108.0	--	108.0	--	139.7	143.0
2 1/2	85.9	120.7	127.0	--	127.0	--	162.1	165.1
3	108.0	133.4	146.1	174.8	146.1	165.1	171.5	193.8
4	131.8	171.5	177.8	209.6	190.5	203.2	206.5	231.9
5	152.4	193.8	212.9	244.6	238.3	244.6	251.0	276.4
6	190.5	219.2	247.7	301.8	263.7	285.8	279.4	314.5
8	238.3	276.4	304.8	355.6	317.5	355.6	349.3	384.3
10	285.8	336.6	358.9	416.1	397.0	431.8	431.8	473.2
12	342.9	406.4	419.1	479.6	454.2	495.3	517.7	546.1
14	374.7	447.8	482.6	533.4	489.0	517.7	574.8	--
16	425.5	511.3	536.7	590.6	562.1	571.5	638.3	--
18	489.0	546.1	593.9	644.7	609.6	635.0	701.8	--
20	533.4	603.3	651.0	765.3	679.5	695.5	752.6	--
24	641.4	714.5	771.7	30.130	787.4	835.2	898.7	--

**Dimensions for Metal Jacketed Gaskets per ASME B16.20 to Suit ASME B16.47 Series A Flanges**

Nominal Pipe Size (NPS)	Outside Diameter (OD) by Class (1)					
	Inside Diameter (ID) (1)	Class 150	Class 300	Class 400 (2)	Class 600	Class 900 (2)
	mm	mm	mm	mm	mm	mm
26	673.1	771.7	831.9	828.8	863.6	879.6
28	723.9	828.8	895.4	889.0	911.4	943.1
30	774.7	879.6	949.5	943.1	968.5	1006.6
32	825.5	936.8	1003.3	1000.3	1019.3	1070.1
34	876.3	987.6	1054.1	1051.1	1070.1	1133.6
36	927.1	1044.7	1114.6	1114.6	1127.3	1197.1
38	977.9	1108.2	1051.1	1070.1	1101.9	1197.1
40	1028.7	1159.0	1111.3	1124.0	1152.7	1247.9
42	1079.5	1216.2	1162.1	1174.8	1216.2	1298.7
44	1130.3	1273.3	1216.2	1228.9	1267.0	1365.3
46	1181.1	1324.1	1270.0	1286.0	1324.1	1432.1
48	1231.9	1381.3	1320.8	1343.2	1387.6	1482.9
50	1282.7	1432.1	1374.9	1400.3	1444.8	--
52	1333.5	1489.2	1425.7	1451.1	1495.6	--
54	1384.3	1546.4	1489.2	1514.6	1552.7	--
56	1435.1	1603.5	1540.0	1565.4	1603.5	--
58	1485.9	1660.7	1590.8	1616.2	1660.7	--
60	1536.7	1711.5	1641.6	1679.7	1730.5	--

**Note:**

The gasket thickness tolerance is +0.03 in., - 0.000 in. (+0.8 mm, - 0.0 mm)

(1) For gaskets NPS 1/2 through NPS 24, the outside and inside diameter tolerances are +0.06 in, - 0.0 in. (+1.5 mm, - 0.0 mm)

(2) There are no Class 400 flanges for NPS 1/2 through NPS 3 (use Class 600)

(3) There are no Class 900 flanges for NPS 1/2 through NPS 2 1/2 (use Class 1500)

(4) There are no Class 2500 flanges NPS 14 and larger

(5) For gaskets NPS 26 through NPS 60, the outside diameter and inside diameter tolerances are +0.13 in, -0.000 in. (+3.3 mm, -0.0 mm).

(6) There are no Class 900 flanges for NPS 50 and larger.

• **Custom-made size is available**

• **Rib and radian according to the customer's drawing**

**Dimensions for Metal Jacketed Gaskets per ASME B16.20 to Suit ASME  
B16.47 Series B Flanges**

Nominal Pipe Size (NPS)	Outside Diameter (OD) by Class (1)					
	Inside Diameter (ID) (1)	Class 150	Class 300	Class 400 (2)	Class 600	Class 900 (2)
	mm	mm	mm	mm	mm	mm
26	673.1	722.4	768.4	743	762	835.2
28	723.9	773.2	822.5	797.1	816.1	898.7
30	774.7	824	882.7	854.2	876.3	955.8
32	825.5	877.8	936.8	908.1	930.4	1013
34	876.3	931.9	990.6	958.9	993.9	1070.1
36	927.1	984.3	1044.7	1019.3	1044.7	1120.9
38	977.9	1041.4	1095.5	1070.1	1101.9	1197.1
40	1028.7	1092.2	1146.3	1124	1152.7	1247.9
42	1079.5	1143	1197.1	1174.8	1216.2	1298.7
44	1130.3	1193.8	1247.9	1228.9	1267	1365.3
46	1181.1	1252.5	1314.5	1286	1324.1	1432.1
48	1231.9	1303.3	1365.3	1343.2	1387.6	1482.9
50	1282.7	1354.1	1416.1	1400.3	1444.8	--
52	1333.5	1404.9	1466.9	1451.1		
54	1384.3	1460.5	1527.3	1514.6		
56	1435.1	1511.3	1590.8	1565.4		
58	1485.9	1576.3	1652.5	1616.2		
60	1536.7	1627.1	1703.3	1679.7		

**Note:**

The gasket thickness tolerance is +0.03 in., - 0.000 in. (+0.8 mm, - 0.0 mm)

(1) For gaskets NPS 1/2 through NPS 24, the outside and inside diameter tolerances are +0.06 in, - 0.0 in. (+1.5 mm, - 0.0 mm)

(2) There are no Class 400 flanges for NPS 1/2 through NPS 3 (use Class 600)

(3) There are no Class 900 flanges for NPS 1/2 through NPS 2 1/2 (use Class 1500)

(4) There are no Class 2500 flanges NPS 14 and larger

(5) For gaskets NPS 26 through NPS 60, the outside diameter and inside diameter tolerances are +0.13 in, -0.000 in. (+3.3 mm, -0.0 mm).

(6) There are no Class 900 flanges for NPS 50 and larger.

• **Custom-made size is available**

• **Rib and radian according to the customer's drawing**

**Inquiry / Order example**

Size	Pressure	Material	Qty
1"	150#	Section(1) Jacket, type A, SS304/Graphite	10pcs
Drawing required		Section(1) Jacket, SS304/Graphite	10pcs