

# Low Torque Flange Gaskets



SERIES: GA

SIZES: EPDM: 1/2" to 12"<sup>2</sup>  
PTFE: 1/2" to 12"

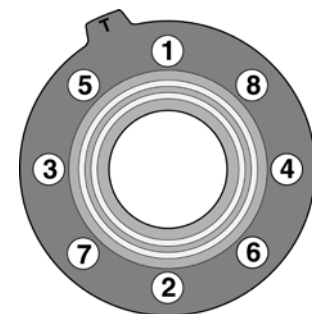
CLASS: ANSI 150 Full Faced

TEMPERATURE RANGE: EPDM: -40° to 90°C (-40° to 194°F)  
PTFE: -40° to 120°C (-40° to 248°F)

Chemline **GA Series** Low Torque Gaskets are recommended for all plastic piping systems to prevent initial flange leakage due to bolt over tightening. They are especially recommended for all Chemline solid plastic flanged body valves. The unique double convex ring design provides optimum sealing with a fraction of the bolt torque required for flat face gaskets. The PTFE gaskets have 0.4 mm sheet material bonded to EPDM. This increases elasticity, lowering bolt torques required to seal.

## Features

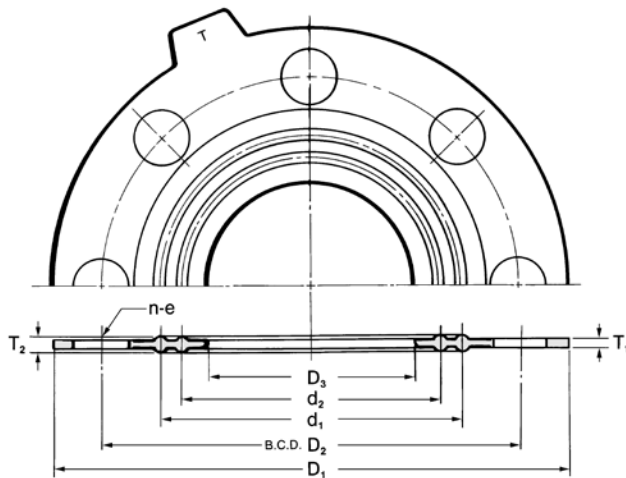
- **Low Flange Bolt Torques Required for Positive Seal** – Due to the moulded raised face – patented double convex ring design
- **Ideal for Thermoplastic Piping Systems**, also metal or plastic lined metal pipe systems for up to 250 psi
- **High Chemical Resistance** – PTFE-bonded gaskets are suitable for extremely aggressive chemical services
- **Longer Gasket Life** – Because lower flange pressures are required for sealing



When installing, tighten lubricated flange bolts evenly and in a symmetrical pattern as shown above

<sup>1</sup> PTFE gaskets are 0.4 mm sheet bonded onto EPDM

<sup>2</sup> Available special order up to 22" sizes



## SAMPLE SPECIFICATIONS

All flange gaskets 1/2" to 22" are to be **Chemline GA Series** moulded raised face type with full face ANSI B16.1 (Class 150) dimensions. Material will be pure EPDM or PTFE-bonded EPDM. Two concentric convex moulded rings will provide effective sealing using low bolt torques.

## MATERIAL IDENTIFICATION TAB

**EPDM** = Solid EPDM

**T** = PTFE bonded EPDM

## DUROMETER (HARDNESS)

**EPDM** – Shore A: 65° ± 3°

## DIMENSIONS INCHES

Size	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	d <sub>1</sub>	d <sub>2</sub>	n	e	T <sub>1</sub>	T <sub>2</sub>
1/2"	3.5	2.4	0.9	1.8	1.3	4	0.63	0.12	0.14
3/4"	3.9	2.8	1.1	3.3	2.2	4	0.63	0.12	0.14
1"	4.3	3.1	1.3	3.7	2.5	4	0.63	0.12	0.14
1-1/4"	4.7	3.5	1.7	4.1	2.9	4	0.63	0.12	0.14
1-1/2"	5.1	3.9	1.9	4.5	3.2	4	0.63	0.12	0.14
2"	5.9	4.7	2.4	5.5	4.0	4	0.71	0.12	0.14
2-1/2"	7.1	5.5	3.0	6.3	4.7	4	0.71	0.12	0.14
3"	7.5	6.0	3.5	6.8	5.2	4	0.71	0.12	0.14
4"	9.1	7.5	4.5	8.5	6.5	8	0.71	0.12	0.14
5"	10.0	8.5	5.5	9.5	7.5	8	0.87	0.12	0.14
6"	11.0	9.5	6.7	10.5	8.6	8	0.87	0.12	0.14
8"	13.6	11.8	8.7	12.8	10.7	8	0.87	0.12	0.14
10"	15.9	14.3	10.7	15.4	13.1	12	1.02	0.12	0.14
12"	19.1	17.0	12.8	18.4	15.6	12	1.02	0.12	0.14
14"	21.1	18.7	14.0	20.3	17.2	12	1.16	0.12	0.14
16"	23.6	21.3	16.0	23.0	19.5	16	1.16	0.12	0.14
18"	25.0	22.8	18.0	24.3	21.2	16	1.28	0.12	0.14
20"	27.6	25.0	20.0	26.7	23.3	20	1.28	0.12	0.14
22"	29.5	29.5	22.0	32.0	27.0	20	1.28	0.12	0.14

# Low Torque Flange Gaskets



**RECOMMENDED BOLTS TORQUES<sup>1</sup>** FT-LB.

**WEIGHTS** LBS.

Size	EPDM				PTFE				EPDM	PTFE
	Working Pressure				Working Pressure					
	85 psi	142 psi	228 psi	250 psi <sup>2</sup>	85 psi	142 psi	228 psi	250 psi <sup>2</sup>		
1/2"	9.4	13.0	14.5	18.1	10.9	14.5	15.9	18.1	0.04	0.04
3/4"	9.4	13.0	14.5	18.1	10.9	14.5	15.9	18.1	0.05	0.05
1"	9.4	13.0	14.5	18.1	10.9	14.5	15.9	18.1	0.06	0.06
1-1/4"	10.9	13.8	16.7	21.7	13.0	15.9	18.8	21.7	0.08	0.08
1-1/2"	12.3	14.5	18.1	25.4	14.5	18.1	21.7	25.4	0.09	0.09
2"	12.3	14.5	18.1	25.4	14.5	18.1	21.7	25.4	0.12	0.12
2-1/2"	14.5	18.1	21.7	36.2	21.7	25.4	29.0	36.2	0.16	0.16
3"	14.5	18.1	21.7	36.2	21.7	25.4	29.0	36.2	0.18	0.18
4"	14.5	18.1	21.7	36.2	21.7	25.4	29.0	36.2	0.22	0.27
5"	18.1	21.7	25.4	43.5	25.4	29.0	36.2	43.5	0.28	0.34
6"	18.1	21.7	25.4	43.5	25.4	29.0	36.2	43.5	0.33	0.44
8"	21.7	25.4	29.0	58.0	29.0	36.2	43.5	58.0	0.44	0.51
10"	25.4	29.0	36.2	58.0	29.0	36.2	43.5	58.0	0.55	0.66
12"	29.0	36.2	43.5	58.0	36.2	43.5	50.7	58.0	0.81	0.99

<sup>1</sup>Bolt torques are for flat face flanges.

<sup>2</sup>Maximum recommended torques are those listed for 250 psi service.