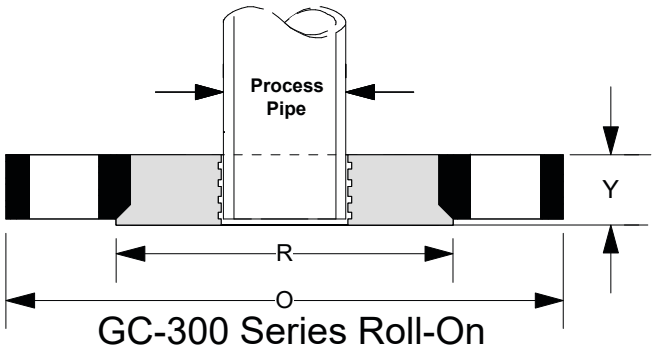
American Insert Flange

# CLASS 300#

## Standard Flange Thickness

## Single Pipe • Grooved Conventional (GC)

## SERIES# GC-300 (CONVENTIONAL)




GC-300 Series Roll-On

| Part Number *see note 6. | Nominal Pipe Size | O (Outside Diameter) | R (Raised Face) | B (Inside Diameter) | Y (Overall Length) | # of Holes - Diameter | Bolt Circle Dia. | Estimated Weight (in lbs.) |
|---|---|---|---|---|---|---|---|---|
| **GC-300/.5** | **1/2"** | 3.75 | 1.38 | 0.85 | 0.56 | 4-0.63 | 2.63 | 1.00 |
| **GC-300/.75** | **3/4"** | 4.63 | 1.69 | 1.06 | 0.63 | 4-0.75 | 3.25 | 1.50 |
| **GC-300/1** | **1"** | 4.88 | 2.00 | 1.32 | 0.69 | 4-0.75 | 3.50 | 4.00 |
| **GC-300/1.25** | **1-1/4"** | 5.25 | 2.50 | 1.67 | 0.75 | 4-0.75 | 3.88 | 6.00 |
| **GC-300/1.5** | **1-1/2"** | 6.13 | 2.88 | 1.91 | 0.81 | 4-0.88 | 4.50 | 7.00 |
| **GC-300/2** | **2"** | 6.50 | 3.63 | 2.38 | 0.88 | 8-0.75 | 5.00 | 13.00 |
| **GC-300/2.5** | **2-1/2"** | 7.50 | 4.13 | 2.89 | 1.00 | 8-0.88 | 5.88 | 14.00 |
| **GC-300/3** | **3"** | 8.25 | 5.00 | 3.52 | 1.13 | 8-0.88 | 6.63 | 16.00 |
| **GC-300/3.5** | **3-1/2"** | 9.00 | 5.50 | 4.03 | 1.19 | 8-0.88 | 7.25 | 19.00 |
| **GC-300/4** | **4"** | 10.00 | 6.19 | 4.52 | 1.25 | 8-0.88 | 7.88 | 22.00 |
| **GC-300/5** | **5"** | 11.00 | 7.31 | 5.58 | 1.38 | 8-0.88 | 9.25 | 33.00 |
| **GC-300/6** | **6"** | 12.50 | 8.50 | 6.66 | 1.44 | 12-0.88 | 10.63 | 47.00 |
| **GC-300/8** | **8"** | 15.00 | 10.63 | 8.66 | 1.63 | 12-1.00 | 13.00 | 68.00 |
| **GC-300/10** | **10"** | 17.50 | 12.75 | 10.79 | 1.88 | 16-1.13 | 15.25 | 95.00 |
| **GC-300/12** | **12"** | 20.50 | 15.00 | 12.79 | 2.00 | 16-1.25 | 17.75 | 122.00 |
| **GC-300/14** | **14"** | 23.00 | 16.25 | 14.06 | 2.13 | 20-1.25 | 20.25 | 271.00 |
| **GC-300/16** | **16"** | 25.50 | 18.50 | 16.09 | 2.25 | 20-1.38 | 22.50 | 375.00 |
| **GC-300/18** | **18"** | 28.00 | 21.00 | 18.10 | 2.38 | 24-1.38 | 24.75 | 450.00 |
| **GC-300/20** | **20"** | 30.50 | 23.00 | 20.12 | 2.50 | 24-1.38 | 27.00 | 565.00 |
| **GC-300/22** | **22"** | 33.00 | 25.25 | 22.14 | 2.75 | 24-1.63 | 29.25 | 752.00 |
| **GC-300/24** | **24"** | 36.00 | 27.25 | 24.17 | 2.75 | 24-1.63 | 32.00 | 945.00 |

1. All dimensions in inches. The **Y dimension includes the 1/16" raised face.**
2. Tolerances are standard to ANSI B 16.5 dimensional tolerances.
3. Bolting is to SA-193 B7 and the gasket is spiral wound.
4. These flanges are made to **standard ASME flange thicknesses**. Although the conventional series (standard flange thicknesses) have been used the longest in the PVF industry, not all pressure temperature ratings will conform with ASME B16.5 due to an insert flange being a two-piece flange. (ASME B16.5 is written for one-piece flanges) Please see our ASME Series for engineered thicknesses that meet and conform to all pressure temperature ratings for ASME Code.
5. Sizes not shown are available upon request.
6. Complete part number would have a / then material of the insert (ex. **GC-300/2/316L** this would be a 2" insert flange with a 316L insert and carbon steel flange. If the flange is 316L, the part # is GC-300/2/316L-316L etc.
7. These dimensions are based on using stainless steel for the insert and carbon steel for the flange. Any changes in these types of material may result in an increase to the dimension of the flange thickness.
8. An insert and flange is sold together as one unit.

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