

# AV GASKET



Full face Type  
Rubber Gasket



Ring Type Gasket  
(JIS only)



PTFE coated



PVDF coated

● MATERIAL : EPDM, PTFE, PVDF, CSM, FKM, IIR, Viton F, C

## FEATURES

- AV GASKETS offer Similar sealing performance with  $\frac{1}{3}$  bolt tightening torque, compared to flat or envelope style gaskets.
- Uniform dimension, fine surface, suitable hardness.
- Long service life.
- Unique Convex Design.

## SPECIFICATIONS

| Material | Working Temperature           | SIZE AVAILABILITY BY STANDARD |                                |              |
|----------|-------------------------------|-------------------------------|--------------------------------|--------------|
|          |                               | JIS                           | ANSI                           | DIN          |
| EPDM     | -40°C - 90°C (-40°F - 195°F)  | 15mm - 350mm                  | $\frac{1}{2}$ inch - 16inch *1 | 15mm - 350mm |
| PTFE     | -40°C - 120°C (-40°F - 250°F) | 15mm - 300mm                  | $\frac{1}{2}$ inch - 12inch    | 15mm - 400mm |
| PVDF     | -40°C - 120°C (-40°F - 250°F) | 15mm - 300mm                  | $\frac{1}{2}$ inch - 10inch *2 | 15mm - 300mm |
| VIFLON   | -5°C - 150°C (-5°F - 280°F)   | 15mm - 200mm                  | —                              | —            |

Working temperature is different depending on type of fluid.

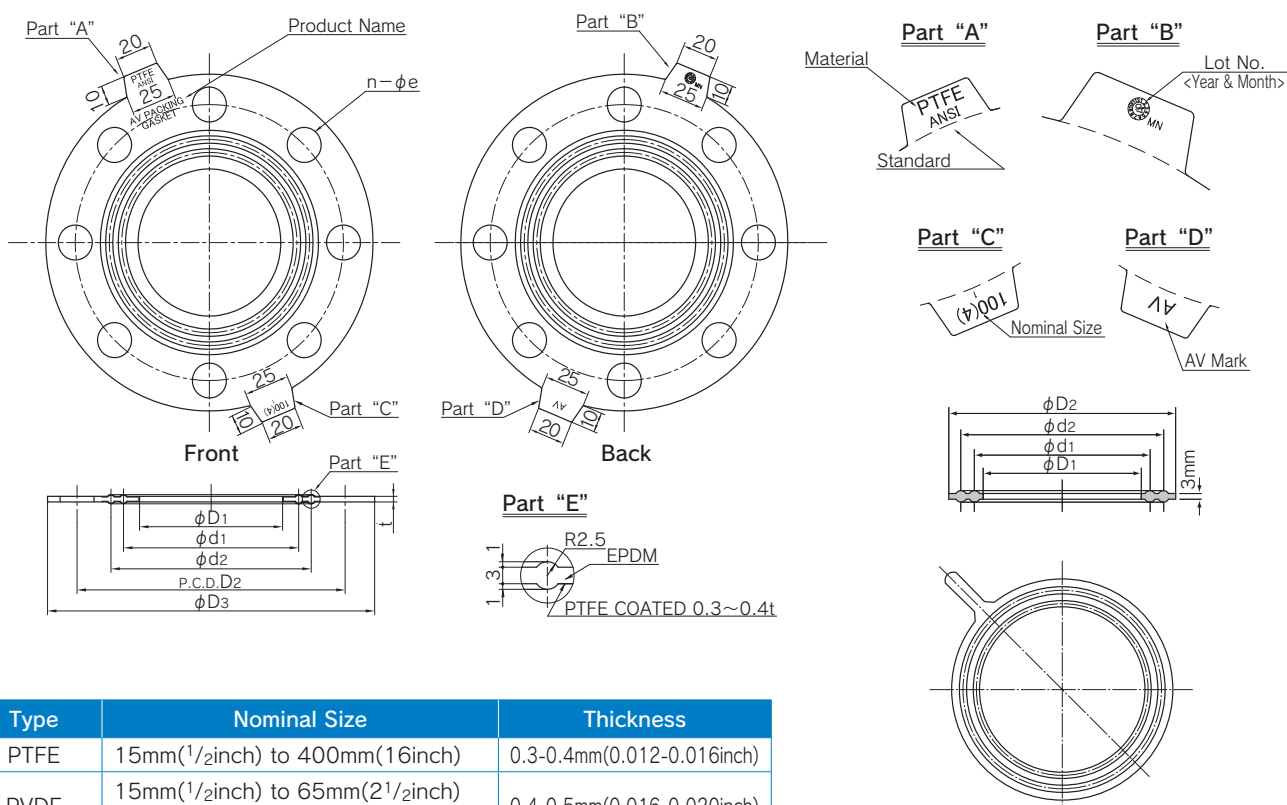
Voflon-F has superior resistance to inorganic acids such as  $\text{HNO}_3$ , HF and HCl.

Voflon-C has superior resistance to chlorine containing media such as Chlorine Water, NaCl and  $\text{ClO}_2$ .

\* 1 14inch, 16inch: FLAT FULL FACE

\* 2 Except for  $\frac{1}{4}$ inch and  $\frac{2}{3}$ inch

## DIMENSIONS



| Type | Nominal Size                                                                            | Thickness                  |
|------|-----------------------------------------------------------------------------------------|----------------------------|
| PTFE | 15mm( $\frac{1}{2}$ inch) to 400mm(16inch)                                              | 0.3-0.4mm(0.012-0.016inch) |
| PVDF | 15mm( $\frac{1}{2}$ inch) to 65mm(2 $\frac{1}{2}$ inch)<br>80mm(3inch) to 300mm(12inch) | 0.4-0.5mm(0.016-0.020inch) |

**DIMENSIONS TABLE**

| Full-Face Type (JIS 10K) |       |                |                |                |    |    |                | Unit:mm        |
|--------------------------|-------|----------------|----------------|----------------|----|----|----------------|----------------|
| Nominal Size             |       | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | n  | e  | d <sub>1</sub> | d <sub>2</sub> |
| mm                       | inch  |                |                |                |    |    |                |                |
| 13                       | 3/8   | 15             | 65             | 88             | 4  | 15 | 22             | 37             |
| 15                       | 1/2   | 18             | 70             | 93             | 4  | 15 | 26             | 41             |
| 20                       | 3/4   | 22             | 75             | 98             | 4  | 15 | 32             | 47             |
| 25                       | 1     | 30             | 90             | 123            | 4  | 19 | 38             | 53             |
| 32                       | 1 1/4 | 37             | 100            | 133            | 4  | 19 | 50             | 65             |
| 40                       | 1 1/2 | 43             | 105            | 138            | 4  | 19 | 54             | 69             |
| 50                       | 2     | 54             | 120            | 153            | 4  | 19 | 68             | 83             |
| 65                       | 2 1/2 | 69             | 140            | 173            | 4  | 19 | 86             | 101            |
| 80(75)                   | 3     | 80             | 150            | 183            | 8  | 19 | 98             | 112            |
| 100                      | 4     | 102            | 175            | 208            | 8  | 19 | 120            | 138            |
| 125                      | 5     | 127            | 210            | 248            | 8  | 23 | 145            | 166            |
| 150                      | 6     | 150            | 240            | 278            | 8  | 23 | 168            | 190            |
| 200                      | 8     | 198            | 290            | 328            | 12 | 23 | 216            | 247            |
| 250                      | 10    | 249            | 355            | 398            | 12 | 25 | 270            | 306            |
| 300                      | 12    | 300            | 400            | 443            | 16 | 25 | 324            | 352            |
| 350                      | 14    | 350            | 445            | 488            | 16 | 25 | 370            | 390            |

| Ring Type (JIS 10K) |       |                |                |                |                |  |  | Unit:mm |
|---------------------|-------|----------------|----------------|----------------|----------------|--|--|---------|
| Nominal Size        |       | D <sub>1</sub> | D <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> |  |  |         |
| mm                  | inch  |                |                |                |                |  |  |         |
| 15                  | 1/2   | 18             | 54             | 26             | 41             |  |  |         |
| 20                  | 3/4   | 22             | 59             | 32             | 47             |  |  |         |
| 25                  | 1     | 30             | 70             | 38             | 53             |  |  |         |
| 32                  | 1 1/4 | 37             | 80             | 50             | 65             |  |  |         |
| 40                  | 1 1/2 | 43             | 85             | 54             | 69             |  |  |         |
| 50                  | 2     | 54             | 100            | 68             | 83             |  |  |         |
| 65                  | 2 1/2 | 69             | 120            | 86             | 101            |  |  |         |
| 80(75)              | 3     | 80             | 130            | 98             | 112            |  |  |         |
| 100                 | 4     | 102            | 155            | 120            | 138            |  |  |         |
| 125                 | 5     | 127            | 187            | 145            | 166            |  |  |         |
| 150                 | 6     | 150            | 217            | 168            | 190            |  |  |         |
| 200                 | 8     | 198            | 267            | 216            | 247            |  |  |         |
| 250                 | 10    | 249            | 329            | 270            | 306            |  |  |         |
| 300                 | 12    | 300            | 374            | 324            | 352            |  |  |         |

| Full-Face Type (DIN 2501) |       |                |                |                |    |    |                | Unit:mm        |
|---------------------------|-------|----------------|----------------|----------------|----|----|----------------|----------------|
| Nominal Size              |       | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | n  | e  | d <sub>1</sub> | d <sub>2</sub> |
| mm                        | inch  |                |                |                |    |    |                |                |
| 15                        | 1/2   | 18             | 65             | 93             | 4  | 14 | 26             | 41             |
| 20                        | 3/4   | 22             | 75             | 103            | 4  | 14 | 32             | 47             |
| 25                        | 1     | 30             | 85             | 113            | 4  | 14 | 38             | 53             |
| 32                        | 1 1/4 | 37             | 100            | 138            | 8  | 18 | 50             | 65             |
| 40                        | 1 1/2 | 43             | 110            | 148            | 4  | 18 | 54             | 69             |
| 50                        | 2     | 54             | 125            | 163            | 4  | 18 | 68             | 83             |
| 65                        | 2 1/2 | 69             | 145            | 183            | 4  | 18 | 86             | 101            |
| 80(75)                    | 3     | 80             | 160            | 198            | 8  | 18 | 98             | 112            |
| 100                       | 4     | 102            | 180            | 218            | 8  | 18 | 120            | 138            |
| 125                       | 5     | 127            | 210            | 248            | 8  | 18 | 145            | 166            |
| 150                       | 6     | 150            | 240            | 283            | 8  | 23 | 168            | 190            |
| 200                       | 8     | 198            | 295            | 338            | 8  | 23 | 216            | 247            |
| 250                       | 10    | 249            | 350            | 393            | 12 | 23 | 270            | 306            |
| 300                       | 12    | 300            | 400            | 443            | 12 | 23 | 324            | 352            |
| 350                       | 14    | 350            | 460            | 503            | 16 | 25 | 370            | 390            |
| 400                       | 16    | 407            | 515            | 563            | 16 | 26 | 442            | 472            |

| Full-Face Type (ANSI CLASS150) |        |                |                |                |    |      |                | Unit:inch      |
|--------------------------------|--------|----------------|----------------|----------------|----|------|----------------|----------------|
| Nominal Size                   |        | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | n  | e    | d <sub>1</sub> | d <sub>2</sub> |
| inch                           | mm     |                |                |                |    |      |                |                |
| 1/2                            | 15     | 0.7            | 2.4            | 3.4            | 4  | 0.6  | 1.0            | 1.6            |
| 3/4                            | 20     | 0.9            | 2.8            | 3.8            | 4  | 0.6  | 1.3            | 1.9            |
| 1                              | 25     | 1.2            | 3.1            | 4.2            | 4  | 0.6  | 1.5            | 2.1            |
| 1 1/4                          | 32     | 1.5            | 3.5            | 4.5            | 4  | 0.6  | 2.0            | 2.6            |
| 1 1/2                          | 40     | 1.7            | 3.9            | 4.9            | 4  | 0.6  | 2.1            | 2.7            |
| 2                              | 50     | 2.1            | 4.7            | 5.9            | 4  | 0.8  | 2.7            | 3.3            |
| 2 1/2                          | 65     | 2.7            | 5.5            | 6.9            | 4  | 0.8  | 3.4            | 4.0            |
| 3                              | 80(75) | 3.2            | 6.0            | 7.4            | 4  | 0.8  | 3.9            | 4.4            |
| 4                              | 100    | 4.0            | 7.5            | 8.9            | 8  | 0.8  | 4.7            | 5.4            |
| 5                              | 125    | 5.0            | 8.5            | 9.9            | 8  | 0.9  | 5.7            | 6.5            |
| 6                              | 150    | 5.9            | 9.5            | 10.9           | 8  | 0.9  | 6.6            | 7.5            |
| 8                              | 200    | 7.8            | 11.8           | 13.4           | 8  | 0.9  | 8.5            | 9.7            |
| 10                             | 250    | 9.8            | 14.3           | 15.9           | 12 | 1.0  | 10.6           | 12.1           |
| 12                             | 300    | 11.8           | 17.0           | 18.9           | 12 | 1.0  | 12.8           | 13.9           |
| 14                             | 350    | 13.9           | 18.7           | 20.9           | 12 | 1.14 | 14.6           | 15.4           |
| 16                             | 400    | 15.6           | 21.2           | 23.4           | 16 | 1.14 | 17.3           | 18.5           |

\*1 14inch, 16inch:FLAT FULL FACE

**RECOMMENDED TIGHTENING TORQUE <ALL MATERIALS / FULL FACE TYPE>**

| mm(inch)   | N·m  | FT-LB | mm(inch)   | N·m  | FT-LB | mm(inch) | N·m | FT-LB |
|------------|------|-------|------------|------|-------|----------|-----|-------|
| 15 (1/2)   | 17.5 | 13    | 65 (2 1/2) | 22.5 | 16    | 200 (8)  | 55  | 40    |
| 20 (3/4)   | 17.5 | 13    | 80 (3)     | 30   | 22    | 250(10)  | 55  | 40    |
| 25 (1)     | 20   | 14    | 100(4)     | 30   | 22    | 300(12)  | 60  | 43    |
| 40 (1 1/2) | 20   | 14    | 125(5)     | 40   | 29    | 350(14)  | 60  | 43    |
| 50 (2)     | 22.5 | 16    | 150(6)     | 45   | 32    | 400(16)  | 80  | 58    |