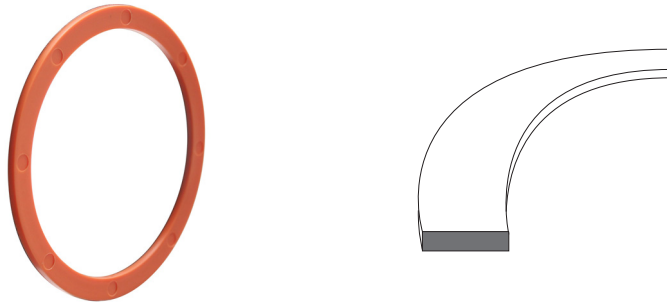


# Back-up Ring - 8700

8700

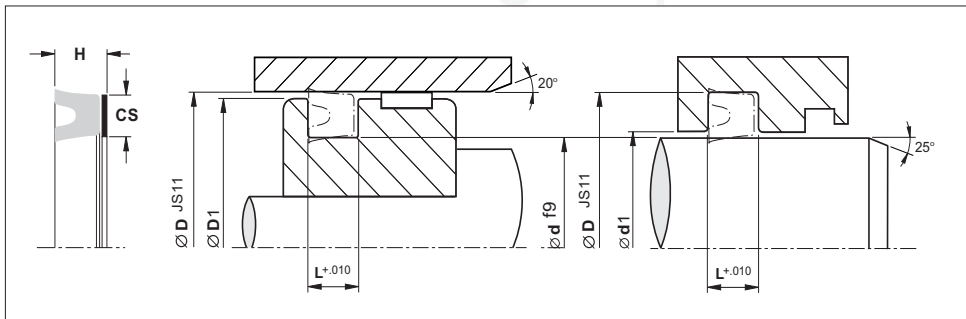
(Inch Size)



| Material | Pressure (Bar) | Temp. (°c)  |
|----------|----------------|-------------|
| Polymyte | 482            | -54<br>+135 |

- Provide resistance in u-cups and PolyPak seals
- Especially made to Increase the pressure rating of rubber u-cups
- Easily matched with various rubber u-cup profiles

## Installation Recommendation



## Surface roughness

## µin CLA

|                    |         |
|--------------------|---------|
| Sliding surface    | 4 to 16 |
| Surface of housing | 63 max  |
| Sides of housing   | 125 max |

## Back-up Ring - 8700

(Inch Size)

| Nominal Seal Dimensions |         |      | Rod/<br>Groove<br>Dia. | Bore/<br>Groove<br>Dia. | Throat<br>Dia. | Piston<br>Dia. | Groove<br>Width<br>w/o<br>Back up | Groove<br>Width<br>with<br>Back up | Reference |
|-------------------------|---------|------|------------------------|-------------------------|----------------|----------------|-----------------------------------|------------------------------------|-----------|
| ID.                     | OD.     | CS/H | d                      | D                       | d1             | D1             |                                   |                                    |           |
| 1/4                     | 1/2     | 1/16 | .250                   | .500                    | .251           | .498           | .156                              | .219                               | 870400250 |
| 5/16                    | 1/2     |      | .312                   | .500                    | .313           | .498           | .125                              | .188                               | 870300312 |
| 5/16                    | 9/16    |      | .312                   | .562                    | .313           | .560           | .156                              | .219                               | 870400312 |
| 3/8                     | 5/8     |      | .375                   | .625                    | .376           | .624           | .156                              | .219                               | 870400375 |
| 1/2                     | 3/4     |      | .500                   | .750                    | .501           | .749           | .156                              | .219                               | 870400500 |
| 5/8                     | 7/8     | 1/16 | .625                   | .875                    | .626           | .874           | .156                              | .219                               | 870400625 |
| 3/4                     | 1       |      | .750                   | 1.000                   | .751           | .999           | .156                              | .219                               | 870400750 |
| 13/16                   | 1-1/16  |      | .812                   | 1.062                   | .813           | 1.060          | .156                              | .219                               | 870400812 |
| 7/8                     | 1-1/8   |      | .875                   | 1.125                   | .876           | 1.123          | .156                              | .219                               | 870400875 |
| 15/16                   | 1-3/16  |      | .938                   | 1.188                   | .939           | 1.186          | .156                              | .219                               | 870400937 |
| 15/16                   | 1-1/4   | 1/16 | .938                   | 1.250                   | .939           | 1.248          | .188                              | .250                               | 870500937 |
| 1                       | 1-1/4   |      | 1.000                  | 1.250                   | 1.001          | 1.249          | .156                              | .219                               | 870401000 |
| 1                       | 1-5/16  |      | 1.000                  | 1.312                   | 1.001          | 1.311          | .188                              | .250                               | 870501000 |
| 1                       | 1-1/2   |      | 1.000                  | 1.500                   | 1.001          | 1.498          | .281                              | .344                               | 870801000 |
| 1-1/16                  | 1-3/8   |      | 1.062                  | 1.375                   | 1.063          | 1.373          | .188                              | .250                               | 870501062 |
| 1-1/8                   | 1-3/8   | 1/16 | 1.125                  | 1.375                   | 1.126          | 1.373          | .156                              | .219                               | 870401125 |
| 1-3/16                  | 1-1/2   |      | 1.188                  | 1.500                   | 1.189          | 1.498          | .188                              | .250                               | 870501187 |
| 1-1/4                   | 1-9/16  |      | 1.250                  | 1.562                   | 1.251          | 1.560          | .188                              | .250                               | 870501250 |
| 1-5/16                  | 1-5/8   |      | 1.312                  | 1.625                   | 1.313          | 1.623          | .188                              | .250                               | 870501312 |
| 1-3/8                   | 1-11/16 |      | 1.375                  | 1.688                   | 1.376          | 1.686          | .188                              | .250                               | 870501375 |
| 1-3/8                   | 1-3/4   | 1/16 | 1.375                  | 1.750                   | 1.376          | 1.748          | .219                              | .281                               | 870601375 |
| 1-1/2                   | 1-13/16 |      | 1.500                  | 1.812                   | 1.501          | 1.810          | .188                              | .250                               | 870501500 |
| 1-1/2                   | 1-7/8   |      | 1.500                  | 1.875                   | 1.501          | 1.873          | .219                              | .281                               | 870601500 |
| 1-5/8                   | 2       |      | 1.625                  | 2.000                   | 1.626          | 1.998          | .219                              | .281                               | 870601625 |
| 1-3/4                   | 2-1/8   |      | 1.750                  | 2.125                   | 1.751          | 2.123          | .219                              | .281                               | 870601750 |
| 1-7/8                   | 2-1/4   | 1/16 | 1.875                  | 2.250                   | 1.876          | 2.248          | .219                              | .281                               | 870601875 |
| 1-15/16                 | 2-3/8   |      | 1.938                  | 2.375                   | 1.939          | 2.373          | .250                              | .312                               | 870701937 |
| 2                       | 2-3/8   |      | 2.000                  | 2.375                   | 2.001          | 2.373          | .219                              | .281                               | 870602000 |
| 2-1/8                   | 2-1/2   |      | 2.125                  | 2.500                   | 2.126          | 2.498          | .219                              | .281                               | 870602125 |
| 2-1/4                   | 2-5/8   |      | 2.250                  | 2.625                   | 2.251          | 2.623          | .219                              | .281                               | 870602250 |
| 2-1/4                   | 3       | 1/16 | 2.250                  | 3.000                   | 2.251          | 2.998          | .406                              | .469                               | 871202250 |
| 2-3/8                   | 2-3/4   |      | 2.375                  | 2.750                   | 2.376          | 2.748          | .219                              | .281                               | 870602375 |
| 2-1/2                   | 2-7/8   |      | 2.500                  | 2.875                   | 2.501          | 2.873          | .219                              | .281                               | 870602500 |
| 2-1/2                   | 2-15/16 |      | 2.500                  | 2.938                   | 2.501          | 2.936          | .250                              | .312                               | 870702500 |
| 2-9/16                  | 3       |      | 2.562                  | 3.000                   | 2.563          | 2.998          | .250                              | .312                               | 870702562 |
| 2-3/4                   | 3-1/8   | 1/16 | 2.750                  | 3.125                   | 2.751          | 3.123          | .219                              | .281                               | 870602750 |
| 2-3/4                   | 3-3/16  |      | 2.750                  | 3.188                   | 2.751          | 3.186          | .250                              | .312                               | 870702750 |
| 2-13/16                 | 3-1/4   |      | 2.812                  | 3.250                   | 2.813          | 3.248          | .250                              | .312                               | 870702812 |
| 3                       | 3-3/8   |      | 3.000                  | 3.375                   | 3.001          | 3.373          | .219                              | .281                               | 870603000 |
| 3                       | 3-7/16  |      | 3.000                  | 3.437                   | 3.001          | 3.435          | .250                              | .312                               | 870703000 |

# Piston & Rod Seals - 8700



(Inch Size)

| Nominal Seal Dimensions |         |      | Rod/<br>Groove<br>Dia. | Bore/<br>Groove<br>Dia. | Throat<br>Dia. | Piston<br>Dia. | Groove<br>Width<br>w/o<br>Back up | Groove<br>Width<br>with<br>Back up | Reference |
|-------------------------|---------|------|------------------------|-------------------------|----------------|----------------|-----------------------------------|------------------------------------|-----------|
| ID.                     | OD.     | CS/H | d                      | D                       | d1             | D1             |                                   |                                    |           |
| 3-1/16                  | 3-1/2   | 1/16 | 3.062                  | 3.500                   | 3.063          | 3.498          | .250                              | .312                               | 870703062 |
| 3-1/2                   | 4       |      | 3.500                  | 4.000                   | 3.501          | 3.998          | .281                              | .344                               | 870803500 |
| 3-3/4                   | 4-1/4   |      | 3.750                  | 4.250                   | 3.751          | 4.248          | .281                              | .344                               | 870803750 |
| 4                       | 4-1/2   |      | 4.000                  | 4.500                   | 4.001          | 4.498          | .281                              | .344                               | 870804000 |
| 4-1/4                   | 4-3/4   |      | 4.250                  | 4.750                   | 4.251          | 4.748          | .281                              | .344                               | 870804250 |
| 4-7/16                  | 5       | 1/16 | 4.437                  | 5.000                   | 4.438          | 4.997          | .312                              | .375                               | 870904437 |
| 4-1/2                   | 5       |      | 4.500                  | 5.000                   | 4.501          | 4.997          | .281                              | .344                               | 870804500 |
| 4-3/4                   | 5-1/4   |      | 4.750                  | 5.250                   | 4.751          | 5.247          | .281                              | .344                               | 870804750 |
| 5                       | 5-9/16  |      | 5.000                  | 5.562                   | 5.001          | 5.559          | .312                              | .375                               | 870905000 |
| 5-1/8                   | 5-3/4   |      | 5.125                  | 5.750                   | 5.126          | 5.747          | .344                              | .406                               | 871005125 |
| 5-3/8                   | 6       | 1/16 | 5.375                  | 6.000                   | 5.376          | 5.997          | .344                              | .406                               | 871005375 |
| 5-7/16                  | 6       |      | 5.438                  | 6.000                   | 5.439          | 5.997          | .312                              | .375                               | 870905437 |
| 5-1/2                   | 6-1/8   |      | 5.500                  | 6.125                   | 5.501          | 6.122          | .344                              | .406                               | 871005500 |
| 5-15/16                 | 6-1/2   |      | 5.938                  | 6.500                   | 5.939          | 6.497          | .312                              | .375                               | 870905937 |
| 6                       | 6-5/8   |      | 6.000                  | 6.625                   | 6.001          | 6.622          | .344                              | .406                               | 871006000 |
| 6-3/8                   | 7       | 1/16 | 6.375                  | 7.000                   | 6.376          | 6.997          | .344                              | .406                               | 871006375 |
| 6-31/32                 | 7-19/32 |      | 6.969                  | 7.594                   | 6.970          | 7.591          | .344                              | .406                               | 871006969 |
| 7-3/8                   | 8       |      | 7.375                  | 8.000                   | 7.376          | 7.997          | .344                              | .406                               | 871007375 |
| 9-5/16                  | 10      |      | 9.312                  | 10.000                  | 9.314          | 9.997          | .375                              | .438                               | 871109312 |
| 11-1/4                  | 12      |      | 11.250                 | 12.000                  | 11.252         | 11.997         | .406                              | .469                               | 871211250 |
| 13                      | 14      | 1/16 | 13.000                 | 14.000                  | 13.002         | 13.997         | .531                              | .594                               | 871613000 |
| 13-3/16                 | 14      |      | 13.188                 | 14.000                  | 13.190         | 13.997         | .438                              | .500                               | 871313187 |