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Sezione F

# Tenute Rotative

## Oleodinamica-Pneumatica

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## Sezione: F

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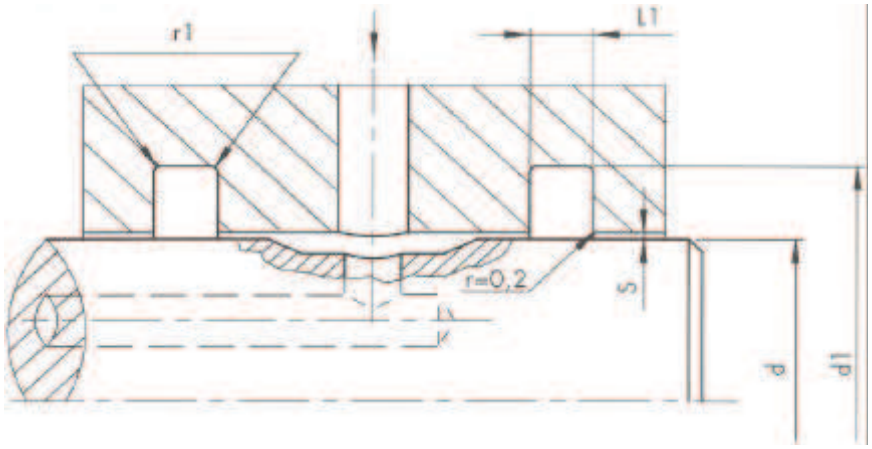
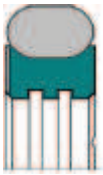
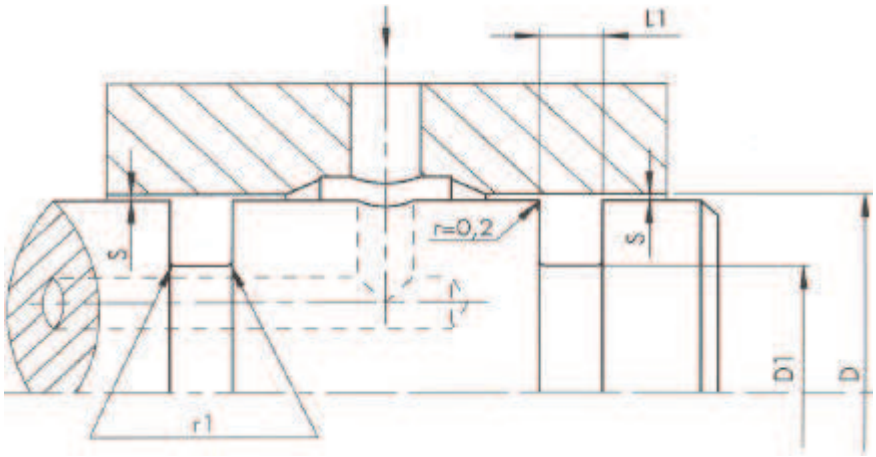
## Rotative tipo NCSR NPSR




### NCS/R



| Serie | Albero d f8/h9 | | Esterno d1 H9 | Larghezza L1 +0,2 | Gioco radiale S | | Raggio r1 | O-ring | n° Cave Lubrif. |
|---|---|---|---|---|---|---|---|---|---|
| | Consigliato | Special | | | 100 bar | 200 bar | | | |
| NCSR0 | 6 - 18,9 | 6 - 230,0 | d + 4,9 | 2,20 | 0,15 | 0,10 | 0,40 | 1,78 | 0 |
| NCSR1 | 19 - 37,9 | 10 - 245,0 | d + 7,5 | 3,20 | 0,20 | 0,15 | 0,60 | 2,62 | 1 |
| NCSR2 | 38 - 199,9 | 19 - 455,0 | d + 11,0 | 4,20 | 0,25 | 0,20 | 1,00 | 3,53 | 1 |
| NCSR3 | 200 - 255,9 | 38 - 655,0 | d + 15,5 | 6,30 | 0,30 | 0,25 | 1,30 | 5,33 | 2 |
| NCSR4 | 256 - 649,9 | 120 - 655,0 | d + 21,0 | 8,10 | 0,30 | 0,25 | 1,80 | 7,00 | 2 |
| NCSR5 | 650 - 999,9 | 650 - 999,9 | d + 28,0 | 9,50 | 0,45 | 0,30 | 2,50 | 8,40 | 2 |




### NPS/R

| Serie | Cilindro D H9 | | Interno D1 h9 | Larghezza L1 +0,2 | Gioco radiale S | | Raggio r1 | O-ring | n° Cave Lubrif. |
|---|---|---|---|---|---|---|---|---|---|
| | Consigliato | Special | | | 100 bar | 200 bar | | | |
| NPSR0 | 8 - 39,9 | 8 - 135,0 | D - 4,9 | 2,20 | 0,15 | 0,10 | 0,40 | 1,78 | 0 |
| NPSR1 | 40 - 79,9 | 14 - 250,0 | D - 7,5 | 3,20 | 0,20 | 0,15 | 0,60 | 2,62 | 1 |
| NPSR2 | 80 - 132,9 | 22 - 460,0 | D - 11,0 | 4,20 | 0,25 | 0,20 | 1,00 | 3,53 | 1 |
| NPSR3 | 133 - 329,9 | 40 - 675,0 | D - 15,5 | 6,30 | 0,30 | 0,25 | 1,30 | 5,33 | 2 |
| NPSR4 | 330 - 669,9 | 133 - 690,0 | D - 21,0 | 8,10 | 0,30 | 0,25 | 1,80 | 7,00 | 2 |
| NPSR5 | 670 - 999,9 | 670 - 999,9 | D - 28,0 | 9,50 | 0,45 | 0,30 | 2,50 | 8,40 | 2 |

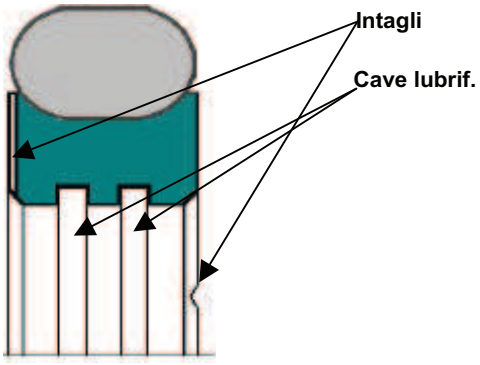
# Rotative tipo NCSR NPSR

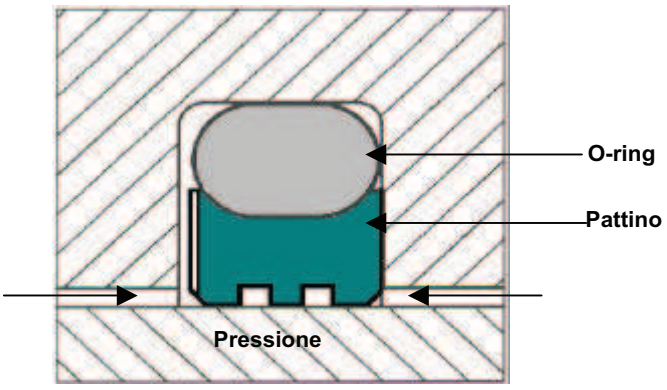
**NCSR NPSR** vengono impiegate come elemento di tenuta per alberi e cilindri rotanti o oscillanti. La tenuta a doppio effetto è costituita da un O-ring energizzante ed un pattino con disegno particolare quale elemento a contatto sulla superficie di tenuta.La superficie di contatto del pattino presenta dei canali (in funzione della larghezza della cava) che svolgono funzione di maggiorare la tenuta aumentando il carico superficiale specifico contro la superficie di tenuta, formazione all' interno di tali cave di un velo lubrificante

## Dati tecnici

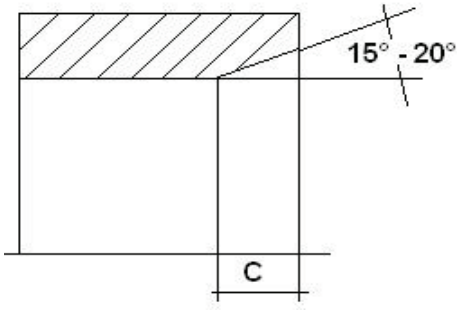
| Materiale anello | Pressione bar | Temperatura °C | Velocità m/sec | Durezza superficie dinamica |
|---|---|---|---|---|
| C755 | 300 | -54 +200 | 1 | 55 HRC |
| VM | 200 | -54 +200 | 2 | 55 HRC |

| Rugosità superficiale | | |
|---|---|---|
| Parametro | Superfici dinamica | Superficie cava |
| Rmax | 0,63-2,50 | <16,0 |
| Rz DIN | 0,40-1,60 | <10,0 |
| Ra | 0,05-0,20 | < 1,6 |

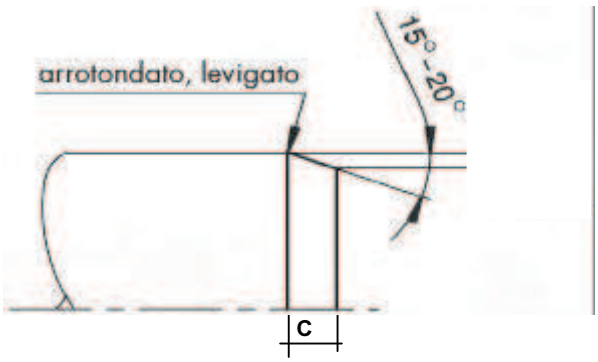



## Smussi di imbocco

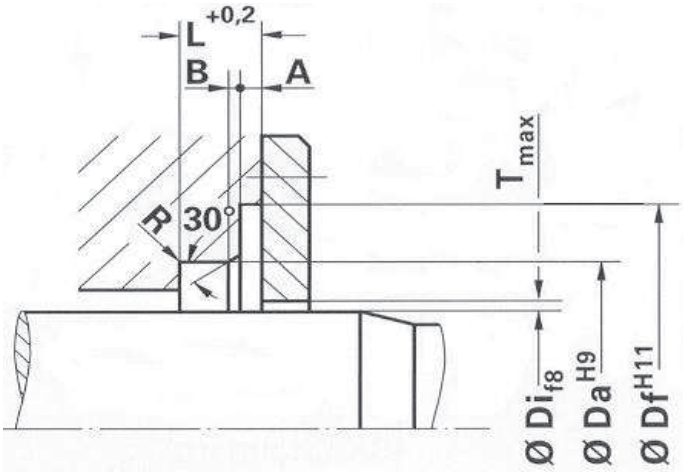



| Serie | L cava | C |
|---|---|---|
| NCSR0 | 2,2 | 2,0 |
| NCSR1 | 3,2 | 2,5 |
| NCSR2 | 4,2 | 3,5 |
| NCSR3 | 6,3 | 5,0 |
| NCSR4 | 8,1 | 6,5 |
| NCSR5 | 9,5 | 7,5 |




| Serie | L cava | C |
|---|---|---|
| NPSR0 | 2,2 | 2,0 |
| NPSR1 | 3,2 | 2,5 |
| NPSR2 | 4,2 | 3,5 |
| NPSR3 | 6,3 | 5,0 |
| NPSR4 | 8,1 | 6,5 |
| NPSR5 | 9,5 | 7,5 |

# Rotative tipo 067



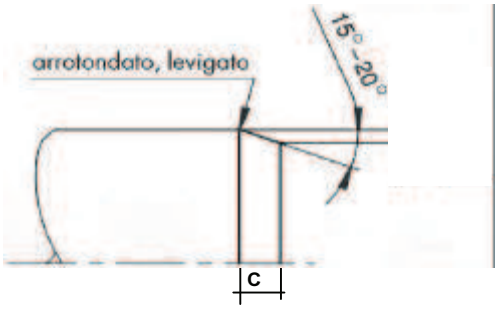

| Serie | Albero Di f8/h9 | | Esterno cava | | Larghezza cava | | | | Gioco radiale | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Da H9 | Df H11 | L +0,2 | A | B | R | T max | | |
| | Consigliato | Special | | | | | | | <20bar | <100bar | <200bar |
| 067 360 | 5 - 19,9 | 5 - 200,0 | d + 5,0 | d + 9,0 | 3,60 | 0,85 +0-0,10 | 0,8 | 0,3 | 0,25 | 0,15 | 0,10 |
| 067 480 | 20 - 39,9 | 10 - 400,0 | d + 7,0 | d + 12,5 | 4,80 | 1,35 +0-0,15 | 1,1 | 0,4 | 0,35 | 0,20 | 0,15 |
| 067 710 | 40 - 400,9 | 20 - 700,0 | d + 10,5 | d + 17,5 | 7,10 | 1,80 +0-0,20 | 1,4 | 0,5 | 0,50 | 0,25 | 0,20 |
| 067 950 | 401 - 999,9 | 35 - 999,9 | d + 14,0 | d + 22,0 | 9,50 | 2,80 +0-0,20 | 1,6 | 0,5 | 0,60 | 0,30 | 0,25 |

-Resistenza alla maggior parte dei fluidi e sostanze chimiche
-Basso coefficiente di atrito
-Assenza di stick-slip
-Molto resistente all'abrasione
-Sterilizzabile
-Sopporta repentine variazioni di temperatura

| Materiale anello | Pressione bar | Temperatura °C | Velocità m/sec | Durezza superficie dinamica |
|---|---|---|---|---|
| 3 | 150 | -40 +290 | 2 | 55 HRC |
| 33 | 150 | -40 +260 | 2 | 55 HRC |
| 55 | 50 | -40 +260 | 2 | 170 HB |
| 48 | 150 | -150 + 80 | 2 | 55 HRC |

| Serie | L cava | C |
|---|---|---|
| 067 360 | 3,6 | 4,5 |
| 067 480 | 4,8 | 5,0 |
| 067 710 | 7,1 | 8,0 |
| 067 950 | 9,5 | 12,0 |

| Condizione di lavoro | Parametro | Superficie di scorrimento | | Superficie della cava µm |
|---|---|---|---|---|
| | | Mov. Rotante | Mov. Alternativo | |
| **Gas** | Rmax | 1,00 | 2,50 | 3,50 |
| | Rz | 0,63 | 1,60 | 2,20 |
| | Ra | 0,10 | 0,20 | 0,30 |
| **Fluidi a bassa viscosità** | Rmax | 2,50 | 3,50 | 5,00 |
| | Rz | 1,60 | 2,20 | 3,50 |
| | Ra | 0,20 | 0,30 | 0,60 |
| **Fluidi altamente viscosi** | Rmax | 2,50 | 4,00 | 6,50 |
| | Rz | 1,60 | 2,50 | 5,00 |
| | Ra | 0,20 | 0,40 | 0,80 |



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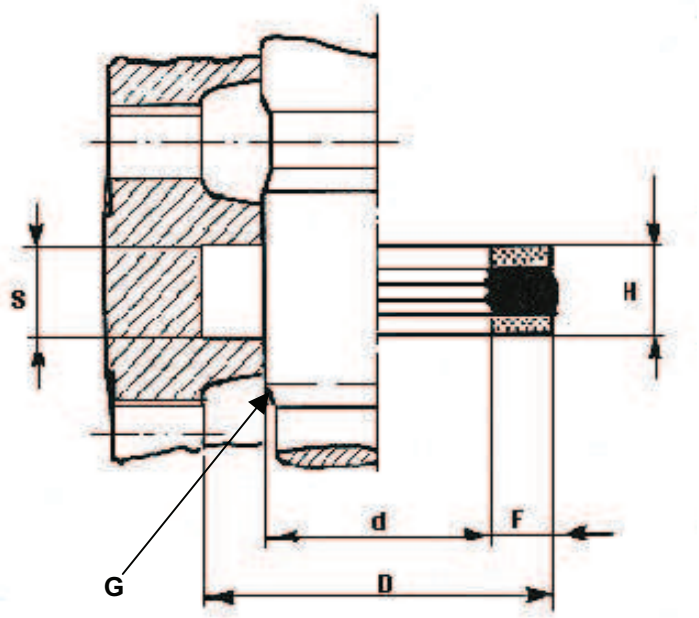
# Rotative tipo G17




**G17** guarnizione in gomma + tela cotonata , per rotori idraulici di media pressione con tenuta a doppio effetto.In certi casi può essere utilizzata con acqua. Per temperature superiori ai 80°C si consiglia una mescola additivata com FPM.

## Dati tecnici

| | |
|---|---|
| **Pressione bar** | 200 |
| **Temperatura °C** | 80 |
| **Velocità m/sec** | 0,1 |

| **Rugosità superficiale** | | |
|---|---|---|
| Parametro | Superfici dinamica | Superficie cava |
| Rt | =3 µm | =10 µm |
| Ra | =0,3 µm | =1,8 µm |

| **Gioco diametrale** | |
|---|---|
| d | G mm |
| 0 - 6 | 0,10 |
| 7 - 10 | 0,15 |
| 11-200 | 0,20 |

| d H9 | D H9 | S +0,20 | H | F |
|---|---|---|---|---|
| 6 | 14,0 | 6.5 | 5,5 | 4,0 |
| 8 | 16,0 | 6.5 | 5,5 | 4,0 |
| 10 | 18,0 | 6.5 | 5,5 | 4,0 |
| 12 | 20,0 | 6.5 | 5,5 | 4,0 |
| 14 | 22,0 | 6.5 | 5,5 | 4,0 |
| 15 | 23,0 | 6.5 | 5,5 | 4,0 |
| 16 | 24,0 | 6,5 | 5,5 | 4,0 |
| 18 | 26,0 | 6.5 | 5,5 | 4,0 |
| 20 | 28,0 | 6,5 | 5,5 | 4,0 |
| 22 | 30,0 | 6.5 | 5,5 | 4,0 |
| 25 | 35,0 | 8,0 | 7,0 | 5,0 |
| 28 | 38,0 | 8,0 | 7,0 | 5,0 |
| 30 | 40,0 | 8,0 | 7,0 | 5,0 |
| 32 | 42,0 | 8,0 | 7,0 | 5,0 |
| 35 | 45,0 | 8,0 | 7,0 | 5,0 |
| 36 | 46,0 | 8,0 | 7,0 | 5,0 |
| 40 | 52,0 | 8,0 | 7,0 | 6,0 |
| 42 | 54,0 | 8,0 | 7,0 | 6,0 |
| 45 | 57,0 | 8,0 | 7,0 | 6,0 |
| 50 | 62,0 | 8,0 | 7,0 | 6,0 |

| d H9 | D H9 | S +0,20 | H | F |
|---|---|---|---|---|
| 55 | 67,0 | 8,0 | 7,0 | 6,0 |
| 56 | 68,0 | 8,0 | 7,0 | 6,0 |
| 60 | 75,0 | 11,0 | 10,0 | 7,5 |
| 63 | 78,0 | 11,0 | 10,0 | 7,5 |
| 65 | 80,0 | 11,0 | 10,0 | 7,5 |
| 70 | 85,0 | 11,0 | 10,0 | 7,5 |
| 75 | 90,0 | 11,0 | 10,0 | 7,5 |
| 80 | 95,0 | 11,0 | 10,0 | 7,5 |
| 85 | 100,0 | 11,0 | 10,0 | 7,5 |
| 90 | 110,0 | 13,0 | 12,0 | 10,0 |
| 100 | 120,0 | 13,0 | 12,0 | 10,0 |
| 110 | 130,0 | 13,0 | 12,0 | 10,0 |
| 115 | 135,0 | 13,0 | 12,0 | 10,0 |
| 125 | 145,0 | 13,0 | 12,0 | 10,0 |
| 140 | 160,0 | 13,0 | 12,0 | 10,0 |
| 150 | 175,0 | 16,0 | 15,0 | 12,5 |
| 160 | 185,0 | 16,0 | 15,0 | 12,5 |
| 180 | 205,0 | 16,0 | 15,0 | 12,5 |
| 200 | 225,0 | 16,0 | 15,0 | 12,5 |
| | | | | |

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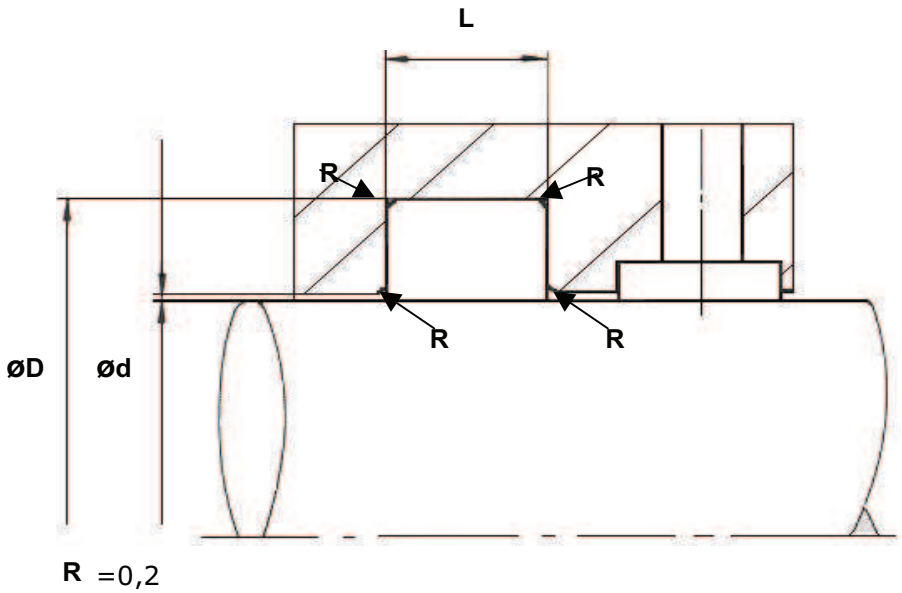
# Rotative tipo C5 C9




R =0,2

**C5** guarnizione per rotori a bassa pressione. La guarnizione è in gomma NBR con durezza 84° Sh A. Viene impiegata come guarnizione terminale.**C9** si differenzia da **C5** per l' aggiunta di un anello antiestrusione con conseguente aumento della pressione di lavoro

| | |
|---|---|
| **Pressione bar** | 20 |
| **Temperatura °C** | -30 +100 |
| **Velocità m/sec** | 0,2 |

| Rugosità superficiale | | |
|---|---|---|
| Parametro | Superfici dinamica | Superficie cava |
| Rt | =3 µm | =10 µm |
| Ra | =0,3 µm | =1,8 µm |

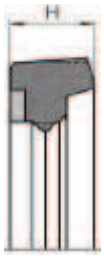
## C5


| d f7 | D H9 | H | L +0,20 | Riferimento |
|---|---|---|---|---|
| 45 | 57,0 | 7,5 | 8,5 | C5 4057 N3584 |
| 60 | 72,0 | 8,5 | 9,5 | C5 6010 N3584 |
| 65 | 77,0 | 6,0 | 7,0 | C5 6037 N3584 |
| 90 | 102,0 | 8,5 | 9,5 | C5 9010 N3584 |
| 95 | 107,0 | 7,5 | 8,5 | C5 9049 N3584 |
| 95 | 112,0 | 10,0 | 11,0 | C5 9050 N3584 |
| 110 | 130,0 | 10,0 | 11,0 | C5 B010 N3584 |
| 115 | 135,0 | 10,0 | 11,0 | C5 B050 N3584 |
| 130 | 150,0 | 10,0 | 11,0 | C5 D050 N3584 |
| 150 | 170,0 | 10,0 | 11,0 | C5 F020 N3584 |
| 180 | 200,0 | 10,0 | 11,0 | C5 J020 N3584 |
| 220 | 245,0 | 12,5 | 13,5 | C5 M045 N3584 |

| | |
|---|---|
| **Pressione bar** | 40 |
| **Temperatura °C** | -30 +100 |
| **Velocità m/sec** | 0,2 |

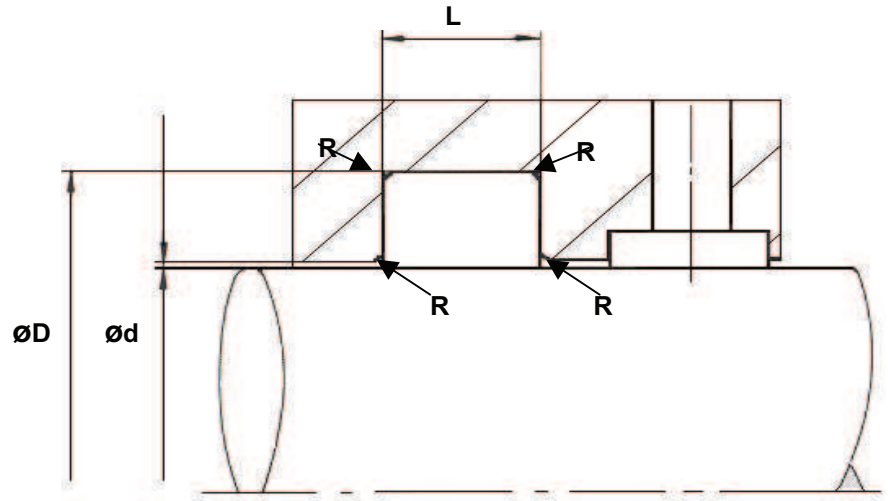
| Rugosità superficiale | | |
|---|---|---|
| Parametro | Superfici dinamica | Superficie cava |
| Rt | =3 µm | =10 µm |
| Ra | =0,3 µm | =1,8 µm |

## C9




| d f7 | D H9 | H | L +0,20 | Riferimento |
|---|---|---|---|---|
| 30 | 42,0 | 7,0 | 8,0 | C9 0030 00656 |
| 90 | 108,0 | 9,0 | 10,0 | C9 0090 00656 |
| 90 | 110,0 | 10,0 | 11,0 | C9 0091 00656 |
| 105 | 125,0 | 10,0 | 11,0 | C9 0105 00656 |
| 115 | 135,0 | 10,0 | 11,0 | C9 0115 00656 |
| 130 | 150,0 | 10,0 | 11,0 | C9 0131 00656 |
| 140 | 160,0 | 10,0 | 11,0 | C9 0140 00656 |
| 160 | 180,0 | 10,0 | 11,0 | C9 0161 00656 |
| 170 | 190,0 | 10,0 | 11,0 | C9 0170 00656 |
| 200 | 220,0 | 10,0 | 11,0 | C9 0200 00656 |

# Rotative tipo C1





R =0,2

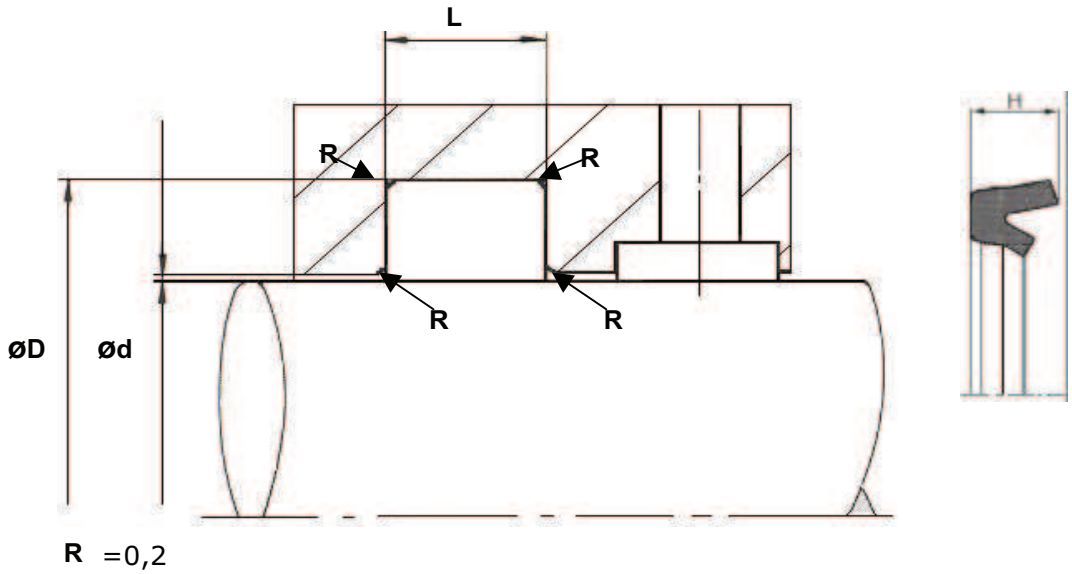
| | |
|---|---|
| **Pressione bar** | 20 |
| **Temperatura °C** | -30 + 80 |
| **Velocità m/sec** | 0,2 |

**C1** guarnizione per rotori pneumatici a bassa pressione. La guarnizione è in gomma NBR con durezza 71° Sh A.

| d f7 | D H9 | H | L +0,20 | Riferimento |
|---|---|---|---|---|
| 2 | 7,0 | 3,5 | 4,0 | C1 0003 N3571 |
| 3 | 7,0 | 3,0 | 3,5 | C1 0005 N3571 |
| 3 | 9,0 | 4,5 | 5,0 | C1 0009 N3571 |
| 3 | 10,0 | 5,0 | 5,5 | C1 0011 N3571 |
| 4 | 8,0 | 3,0 | 3,5 | C1 0013 N3571 |
| 4 | 9,0 | 3,5 | 4,0 | C1 0016 N3571 |
| 4 | 10,0 | 4,2 | 4,7 | C1 0019 N3571 |
| 4 | 12,0 | 4,5 | 5,0 | C1 0022 N3571 |
| 4 | 12,0 | 5,5 | 6,0 | C1 0024 N3571 |
| 4 | 14,0 | 5,8 | 6,3 | C1 0028 N3571 |
| 5 | 8,0 | 3,0 | 3,5 | C1 0032 N3571 |
| 5 | 9,0 | 2,5 | 3,0 | C1 0035 N3571 |
| 5 | 9,7 | 4,0 | 4,5 | C1 0037 N3571 |
| 5 | 10,0 | 4,0 | 4,5 | C1 0038 N3571 |
| 5 | 12,0 | 4,5 | 5,0 | C1 0041 N3571 |
| 6 | 10,0 | 3,0 | 3,5 | C1 0055 N3571 |
| 6 | 12,0 | 4,2 | 4,7 | C1 0058 N3571 |
| 6 | 13,0 | 5,0 | 5,5 | C1 0059 N3571 |
| 6 | 15,0 | 7,0 | 7,5 | C1 0062 N3571 |
| 6 | 16,0 | 5,0 | 5,5 | C1 0065 N3571 |
| 7 | 13,0 | 4,0 | 4,5 | C1 0070 N3571 |
| 8 | 14,0 | 4,0 | 4,5 | C1 0074 N3571 |
| 8 | 14,5 | 4,5 | 5,0 | C1 0077 N3571 |
| 8 | 16,0 | 5,5 | 6,0 | C1 0080 N3571 |
| 8 | 18,0 | 8,0 | 8,5 | C1 0083 N3571 |
| 9 | 14,0 | 3,5 | 4,0 | C1 0087 N3571 |
| 9 | 14,0 | 3,0 | 3,5 | C1 0090 N3571 |
| 10 | 18,5 | 7,0 | 7,5 | C1 0094 N3571 |
| 10 | 13,6 | 2,3 | 2,7 | C1 1002 N3571 |
| 10 | 15,0 | 3,5 | 4,0 | C1 1005 N3571 |
| 10 | 16,0 | 4,5 | 5,0 | C1 1008 N3571 |
| 10 | 16,0 | 6,0 | 6,5 | C1 1011 N3571 |
| 10 | 18,0 | 5,5 | 6,0 | C1 1015 N3571 |
| 10 | 20,0 | 7,0 | 7,5 | C1 1018 N3571 |

| d f7 | D H9 | H | L +0,20 | Riferimento |
|---|---|---|---|---|
| 10 | 15,2 | 3,5 | 4,0 | C1 1020 N3571 |
| 11 | 17,0 | 4,0 | 4,5 | C1 1022 N3571 |
| 11 | 18,0 | 4,5 | 5,0 | C1 1025 N3571 |
| 12 | 18,5 | 4,5 | 5,0 | C1 1028 N3571 |
| 12 | 19,0 | 4,5 | 5,0 | C1 1030 N3571 |
| 12 | 20,0 | 5,5 | 6,0 | C1 1033 N3571 |
| 13 | 19,2 | 3,8 | 4,3 | C1 1035 N3571 |
| 13 | 17,5 | 2,8 | 3,3 | C1 1036 N3571 |
| 14 | 22,0 | 5,5 | 6,0 | C1 1037 N3571 |
| 14 | 19,0 | 3,5 | 4,0 | C1 1039 N3571 |
| 14 | 20,0 | 4,8 | 5,3 | C1 1040 N3571 |
| 14 | 22,0 | 5,5 | 6,0 | C1 1041 N3571 |
| 14 | 25,0 | 8,0 | 8,5 | C1 1042 N3571 |
| 15 | 22,0 | 5,0 | 5,5 | C1 1044 N3571 |
| 16 | 24,0 | 5,5 | 6,0 | C1 1047 N3571 |
| 16 | 22,5 | 4,5 | 5,0 | C1 1049 N3571 |
| 16 | 23,0 | 5,5 | 6,0 | C1 1051 N3571 |
| 16 | 23,5 | 5,5 | 6,0 | C1 1052 N3571 |
| 16 | 24,0 | 5,5 | 6,0 | C1 1053 N3571 |
| 16 | 26,0 | 7,0 | 7,5 | C1 1056 N3571 |
| 16 | 27,0 | 7,5 | 8,0 | C1 1058 N3571 |
| 17 | 25,0 | 5,5 | 6,0 | C1 1060 N3571 |
| 18 | 25,0 | 4,5 | 5,0 | C1 1062 N3571 |
| 18 | 25,0 | 5,5 | 6,0 | C1 1063 N3571 |
| 18 | 26,0 | 5,5 | 6,0 | C1 1066 N3571 |
| 18 | 30,0 | 8,5 | 9,5 | C1 1070 N3571 |
| 19 | 25,5 | 5,5 | 6,0 | C1 1074 N3571 |
| 19 | 25,0 | 5,0 | 5,5 | C1 1079 N3571 |
| 20 | 26,0 | 4,8 | 5,3 | C1 2005 N3571 |
| 20 | 28,0 | 5,5 | 6,0 | C1 2009 N3571 |
| 20 | 28,0 | 8,0 | 8,5 | C1 2013 N3571 |
| 20 | 30,0 | 7,0 | 7,5 | C1 2020 N3571 |
| 20 | 32,0 | 7,0 | 7,5 | C1 2022 N3571 |
| 22 | 29,0 | 5,5 | 6,0 | C1 2025 N3571 |

# Rotative tipo C1




R =0,2

| d f7 | D H9 | H | L +0,20 | Riferimento |
|---|---|---|---|---|
| 22 | 30,0 | 5,5 | 6,0 | C1 2029 N3571 |
| 22 | 32,0 | 8,0 | 8,5 | C1 2030 N3571 |
| 22 | 34,0 | 8,5 | 9,5 | C1 2033 N3571 |
| 23 | 31,0 | 5,5 | 6,0 | C1 2038 N3571 |
| 24 | 32,0 | 5,5 | 6,0 | C1 2043 N3571 |
| 25 | 32,0 | 5,5 | 6,0 | C1 2053 N3571 |
| 25 | 33,0 | 5,5 | 6,0 | C1 2058 N3571 |
| 25 | 33,0 | 8,0 | 8,5 | C1 2061 N3571 |
| 25 | 35,0 | 6,0 | 6,5 | C1 2064 N3571 |
| 25 | 35,0 | 7,0 | 7,5 | C1 2065 N3571 |
| 25 | 36,0 | 8,0 | 8,5 | C1 2066 N3571 |
| 25 | 37,0 | 8,5 | 9,5 | C1 2069 N3571 |
| 25 | 40,0 | 10,0 | 11,0 | C1 2075 N3571 |
| 26 | 36,0 | 7,0 | 7,5 | C1 2078 N3571 |
| 28 | 36,0 | 5,5 | 6,0 | C1 2085 N3571 |
| 28 | 38,0 | 7,0 | 7,5 | C1 2089 N3571 |
| 28 | 40,0 | 8,5 | 9,5 | C1 2095 N3571 |
| 30 | 38,0 | 5,5 | 6,0 | C1 3005 N3571 |
| 30 | 38,0 | 8,0 | 8,5 | C1 3010 N3571 |
| 30 | 40,0 | 7,0 | 7,5 | C1 3015 N3571 |
| 30 | 42,0 | 8,5 | 9,5 | C1 3020 N3571 |
| 32 | 40,0 | 5,5 | 6,0 | C1 3025 N3571 |
| 32 | 42,0 | 7,0 | 7,5 | C1 3030 N3571 |
| 32 | 45,0 | 10,0 | 11,0 | C1 3032 N3571 |
| 33 | 43,0 | 7,0 | 7,5 | C1 3035 N3571 |
| 34 | 44,0 | 7,0 | 7,5 | C1 3040 N3571 |
| 35 | 43,0 | 8,0 | 8,5 | C1 3045 N3571 |
| 35 | 45,0 | 7,0 | 7,5 | C1 3050 N3571 |
| 36 | 46,0 | 7,0 | 7,5 | C1 3055 N3571 |
| 36 | 50,0 | 10,0 | 11,0 | C1 3057 N3571 |
| 37 | 47,0 | 7,0 | 7,5 | C1 3059 N3571 |
| 38 | 48,0 | 7,0 | 7,5 | C1 3060 N3571 |
| 40 | 48,0 | 5,5 | 6,0 | C1 4005 N3571 |
| 40 | 48,0 | 8,0 | 8,5 | C1 4010 N3571 |

| d f7 | D H9 | H | L +0,20 | Riferimento |
|---|---|---|---|---|
| 40 | 50,0 | 7,0 | 7,5 | C1 4015 N3571 |
| 40 | 52,0 | 8,5 | 9,5 | C1 4020 N3571 |
| 42 | 52,0 | 7,0 | 7,5 | C1 4025 N3571 |
| 44 | 54,0 | 7,0 | 7,5 | C1 4030 N3571 |
| 45 | 55,0 | 7,0 | 7,5 | C1 4035 N3571 |
| 45 | 60,0 | 10,0 | 11,0 | C1 4040 N3571 |
| 46 | 56,0 | 7,0 | 7,5 | C1 4046 N3571 |
| 47 | 57,0 | 7,0 | 7,5 | C1 4055 N3571 |
| 48 | 58,0 | 7,0 | 7,5 | C1 4060 N3571 |
| 50 | 58,0 | 8,0 | 8,5 | C1 5005 N3571 |
| 50 | 60,0 | 7,0 | 7,5 | C1 5010 N3571 |
| 50 | 63,0 | 8,5 | 9,5 | C1 5015 N3571 |
| 50 | 63,0 | 12,0 | 13,0 | C1 5017 N3571 |
| 50 | 66,0 | 11,0 | 12,0 | C1 5020 N3571 |
| 54 | 64,0 | 7,0 | 7,5 | C1 5035 N3571 |
| 55 | 65,0 | 7,0 | 7,5 | C1 5040 N3571 |
| 56 | 66,0 | 7,0 | 7,5 | C1 5043 N3571 |
| 56 | 70,0 | 12,0 | 13,0 | C1 5044 N3571 |
| 57 | 67,0 | 7,0 | 7,5 | C1 5053 N3571 |
| 58 | 68,0 | 7,0 | 7,5 | C1 5058 N3571 |
| 59 | 71,0 | 7,5 | 8,0 | C1 5085 N3571 |
| 60 | 72,0 | 8,5 | 9,5 | C1 6005 N3571 |
| 60 | 80,0 | 14,0 | 15,0 | C1 6010 N3571 |
| 63 | 73,0 | 7,0 | 7,5 | C1 6025 N3571 |
| 63 | 75,0 | 8,5 | 9,5 | C1 6035 N3571 |
| 63 | 80,0 | 16,0 | 17,0 | C1 6037 N3571 |
| 64 | 76,0 | 7,5 | 8,0 | C1 6040 N3571 |
| 65 | 77,0 | 8,5 | 9,5 | C1 6055 N3571 |
| 68 | 80,0 | 8,5 | 9,5 | C1 6070 N3571 |
| 70 | 82,0 | 8,5 | 9,5 | C1 7003 N3571 |
| 75 | 87,0 | 8,5 | 9,5 | C1 7020 N3571 |
| 75 | 95,0 | 14,0 | 15,0 | C1 7030 N3571 |
| 80 | 90,0 | 7,0 | 7,5 | C1 8010 N3571 |
| 80 | 92,0 | 7,5 | 8,0 | C1 8013 N3571 |