

# Molded D- and O-Rings

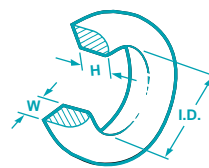
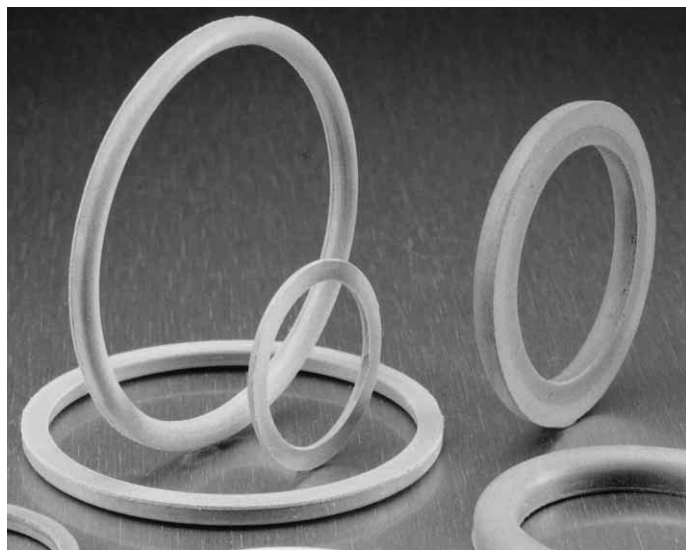


Table 2

D-RINGS			
Chomerics P/N*	Nominal Dimensions		
	H	W	I.D.
10-01-6515-XXXX	0.048 (1.22)	0.078 (1.98)	0.587 (14.91)
10-01-1238-XXXX	0.059 (1.50)	0.093 (2.36)	2.705 (68.71)
10-01-1239-XXXX	0.059 (1.50)	0.095 (2.41)	3.193 (81.10)
10-01-1240-XXXX	0.061 (1.55)	0.025 (0.66)	0.180 (4.57)
10-01-1241-XXXX	0.061 (1.55)	0.039 (0.99)	0.151 (3.84)
10-01-1628-XXXX	0.062 (1.57)	0.096 (2.44)	1.562 (39.67)
10-01-1154-XXXX	0.062 (1.57)	0.069 (1.75)	0.893 (22.68)
10-01-1375-XXXX	0.066 (1.68)	0.059 (1.50)	0.565 (14.35)
10-01-6525-XXXX	0.067 (1.70)	0.097 (2.46)	1.094 (27.79)
10-01-1142-XXXX	0.069 (1.75)	0.094 (2.39)	1.072 (27.23)
10-01-1188-XXXX	0.070 (1.78)	0.065 (1.65)	0.809 (20.55)
10-01-1623-XXXX	0.073 (1.85)	0.034 (0.86)	0.230 (5.84)
10-01-1143-XXXX	0.076 (1.93)	0.097 (2.46)	1.460 (37.08)
10-01-1601-XXXX	0.076 (1.93)	0.095 (2.41)	1.397 (35.48)
10-01-1144-XXXX	0.076 (1.93)	0.097 (2.46)	1.581 (40.16)
10-01-2238-XXXX	0.076 (1.93)	0.113 (2.87)	1.262 (32.05)
10-01-6540-XXXX	0.077 (1.96)	0.103 (2.62)	1.511 (38.37)
10-01-6535-XXXX	0.083 (2.11)	0.093 (2.36)	1.357 (34.48)
10-01-1187-XXXX	0.101 (2.57)	0.130 (3.30)	0.592 (15.04)
10-01-1131-XXXX	0.118 (2.98)	0.174 (4.42)	1.385 (35.18)
10-01-6520-XXXX	0.125 (3.18)	0.155 (3.94)	0.885 (22.48)
10-01-1264-XXXX	0.123 (3.12)	0.123 (3.12)	0.853 (21.67)
10-01-1766-XXXX	0.125 (3.18)	0.138 (3.51)	2.859 (72.62)
10-01-1120-XXXX	0.130 (7.69)	0.180 (4.57)	3.412 (86.66)
10-01-6565-XXXX	0.188 (4.78)	0.234 (5.94)	3.837 (37.46)

\* Last four digits should be used to designate material (1215, 1285, etc.). For certain materials and configurations, a minimum order requirement may apply.

Additional sizes are available. For custom sizes, drawings must be provided. Part numbers will be assigned by Chomerics.

## Molded D- and O-Rings

Chomerics' D-ring and O-ring gaskets provide moisture/pressure sealing and EMI/EMP shielding when compressed in a properly designed groove. They are interchangeable with standard non-conductive seals of the same dimensions. Rings with I.D.s greater than 2 in. (51 mm) can be made by splicing extruded materials rather than by molding if groove corner radii are generous. Consult Chomerics before ordering.

**Note:** Grooves should be designed to assure 10 to 20% deflection of the gasket, and 100% maximum groove fill when groove dimensions are on the low side of allowable tolerance and gasket dimensions are on the high side.

Table 1

DIMENSIONS	TOLERANCES
<i>Cross Sections</i>	
0.040 to 0.069 (1.02-1.75)	±0.003 (±0.08)
0.070 to 0.100 (1.78-2.54)	±0.004 (±0.10)
0.101 to 0.200 (2.57-5.08)	±0.005 (±0.13)
0.201 to 0.350 (5.11-8.89)	±0.008 (±0.20)
<i>Inside Diameters</i>	
0.100 to 1.500 (2.54 to 38.10)	±0.010 (±0.25)
1.501 to 2.500 (38.13 to 63.50)	±0.015 (±0.38)
2.501 to 4.500 (63.53 to 114.30)	±0.020 (±0.51)
4.501 to 7.000 (114.33 to 177.80)	±0.025 (±0.64)
>7.000 (>177.80)	±0.35% of nom. dim.

## Ordering Procedure

Select the part number from Table 2 (D-rings) and Table 3 (O-rings) which follow. The last four digits designate the material. We recommend CHO-SEAL 1215 material for the highest level of shielding effectiveness; CHO-SEAL 1285 material for the best combination of shielding effectiveness, corrosion resistance, weight, cost and temperature range; and CHO-SEAL 1298 for the highest level of corrosion resistance.

**Note:** Tooling charges may be incurred for some parts.

continued

(mm dimensions in parentheses)

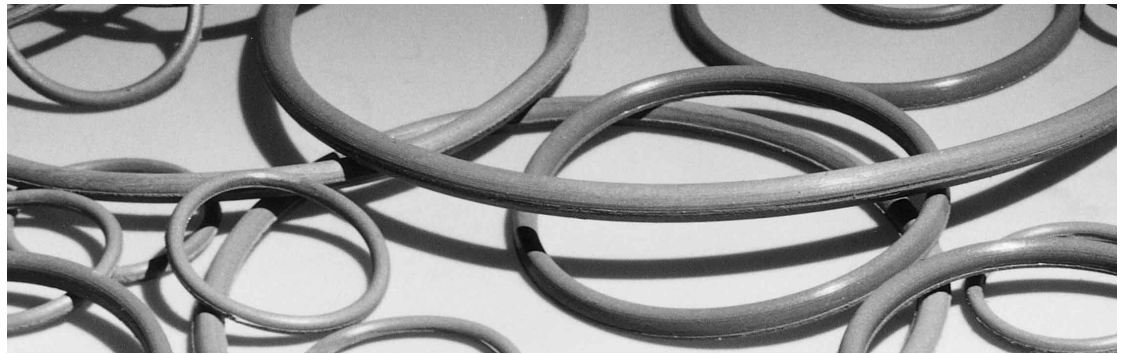
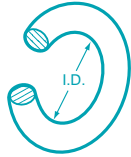


Table 3

O-RINGS			
Chomerics P/N* MIL P/N: M83528/ 00 [ X†-( )	MS 29513 MS 9021 Dash No.	Dimensions	
		Cross Section (Diameter)	I.D.
10-00-2231-XXXX [5] (001)	—	0.030 (0.76)	0.442 (11.23)
10-00-2232-XXXX [5] (002)	—	0.030 (0.76)	0.577 (14.66)
10-00-2259-XXXX [5] (003)	—	0.030 (0.76)	0.692 (17.58)
10-00-2233-XXXX [5] (004)	—	0.030 (0.76)	0.817 (20.75)
10-00-1413-XXXX [5] (005)	—	0.039 (0.99)	0.425 (10.80)
10-00-2777-XXXX [5] (006)	—	0.048 (1.22)	0.295 (7.49)
10-00-1406-XXXX [5] (007)	—	0.050 (1.27)	0.533 (13.54)
10-00-1405-XXXX [5] (008)	—	0.051 (1.30)	0.446 (11.33)
10-00-1407-XXXX [5] (009)	—	0.057 (1.45)	0.415 (10.54)
10-00-1376-XXXX [5] (010)	—	0.063 (1.60)	0.541 (13.74)
10-00-1342-XXXX [5] (011)	—	0.063 (1.60)	0.648 (16.46)
10-00-1631-XXXX [5] (012)	—	0.068 (1.73)	0.847 (21.51)
10-00-1770-XXXX [5] (013)	—	0.068 (1.73)	1.182 (30.02)
10-00-1478-XXXX [5] (014)	—	0.068 (1.73)	3.165 (80.39)
10-00-3811-XXXX [2] (007)	007	0.070 (1.78)	0.145 (3.68)
10-00-2226-XXXX [2] (011)	011	0.070 (1.78)	0.301 (7.65)
10-00-5983-XXXX [2] (012)	012	0.070 (1.78)	0.364 (9.25)
10-00-2227-XXXX [2] (013)	013	0.070 (1.78)	0.426 (10.82)
10-00-1980-XXXX [2] (014)	014	0.070 (1.78)	0.489 (12.42)
10-00-0008-XXXX [5] (015)	—	0.070 (1.78)	0.495 (12.57)
10-00-2065-XXXX [2] (015)	015	0.070 (1.78)	0.551 (14.00)
10-00-0010-XXXX [5] (016)	—	0.070 (1.78)	0.610 (15.49)

Table 3 *continued*

O-RINGS			
Chomerics P/N* MIL P/N: M83528/ 00 [ X†-( )	MS 29513 MS 9021 Dash No.	Dimensions	
		Cross Section (Diameter)	I.D.
10-00-2085-XXXX [5] (017)	—	0.070 (1.78)	0.635 (16.13)
10-00-1689-XXXX [5] (018)	—	0.070 (1.78)	0.667 (16.94)
10-00-2066-XXXX [2] (017)	017	0.070 (1.78)	0.676 (17.17)
10-00-1690-XXXX (NA)	—	0.070 (1.78)	0.738 (18.75)
10-00-0012-XXXX (NA)	—	0.070 (1.78)	0.735 (18.67)
10-00-2075-XXXX [2] (018)	108	0.070 (1.78)	0.739 (18.77)
10-00-1981-XXXX [2] (019)	019	0.070 (1.78)	0.801 (20.35)
10-00-0014-XXXX [5] (019)	—	0.070 (1.78)	0.860 (21.85)
10-00-2076-XXXX [2] (020)	020	0.070 (1.78)	0.864 (21.95)
10-00-1843-XXXX [2] (021)	021	0.070 (1.78)	0.926 (23.52)
10-00-2068-XXXX [2] (022)	022	0.070 (1.78)	0.989 (25.12)
10-00-2536-XXXX (NA)	—	0.070 (1.78)	1.046 (26.57)
10-00-2029-XXXX (NA)	—	0.070 (1.78)	1.110 (28.19)
10-00-2069-XXXX [2] (024)	024	0.070 (1.78)	1.114 (28.30)
10-00-1844-XXXX NA	—	0.070 (1.78)	1.176 (29.87)
10-00-2084-XXXX [5] (020)	—	0.070 (1.78)	1.230 (31.24)
10-00-2070-XXXX [2] (026)	026	0.070 (1.78)	1.239 (31.47)
10-00-2535-XXXX (NA)	—	0.070 (1.78)	1.296 (32.92)
10-00-2228-XXXX (NA)	—	0.070 (1.78)	1.362 (34.59)
10-00-2071-XXXX [2] (028)	028	0.070 (1.78)	1.364 (34.65)

\* Last four digits should be used to designate material (1215, 1285, etc.). For certain materials and configurations, a minimum order requirement may apply.

† "X" should be replaced by applicable MIL-G-83528B material type (e.g., A, B, C, etc.). Number in bracket is MIL-G-83528B slash sheet. Number in parentheses is MIL-G-83528B dash number. Insert them (without brackets or parentheses) to complete MIL P/N.

(mm dimensions in parentheses)

Table 3 continued

O-RINGS			
Chomerics P/N* MIL P/N: M83528/ 00[ ]X <sup>†</sup> -( )	MS 29513 MS 9021 Dash No.	Dimensions	
		Cross Section (Diameter)	I.D.
10-00-0024-XXXX (NA)	—	0.070 (1.78)	1.485 (37.72)
10-00-2677-XXXX (NA)	—	0.070 (1.78)	1.609 (40.87)
10-00-4123-XXXX (NA)	030	0.070 (1.78)	1.614 (41.00)
10-00-2229-XXXX (NA)	—	0.070 (1.78)	1.674 (42.52)
10-00-0028-XXXX (NA)	—	0.070 (1.78)	1.735 (44.07)
10-00-4124-XXXX (NA)	032	0.070 (1.78)	1.864 (47.35)
10-00-0032-XXXX (NA)	—	0.070 (1.78)	1.980 (50.29)
10-00-2230-XXXX (NA)	—	0.070 (1.78)	3.009 (76.43)
10-00-0052-XXXX (NA)	—	0.070 (1.78)	3.170 (80.52)
10-00-2040-XXXX (NA)	043	0.070 (1.78)	3.489 (88.62)
10-00-2320-XXXX (NA)	—	0.076 (1.93)	0.656 (16.66)
10-00-2321-XXXX (NA)	—	0.076 (1.93)	0.779 (19.79)
10-00-1827-XXXX (NA)	—	0.084 (2.13)	0.852 (21.64)
10-00-0044-XXXX (NA)	—	0.084 (2.13)	2.678 (68.02)
10-00-0020-XXXX (NA)	—	0.087 (2.21)	1.250 (31.75)
10-00-0038-XXXX (NA)	—	0.087 (2.21)	2.360 (59.94)
10-00-3550-XXXX (NA)	—	0.094 (2.39)	0.750 (19.05)
10-00-1459-XXXX (NA)	—	0.095 (2.41)	0.897 (22.78)
10-00-1378-XXXX (NA)	—	0.095 (2.41)	1.074 (27.28)
10-00-4452-XXXX (NA)	—	0.100 (2.54)	1.005 (25.53)

Table 4

DIMENSIONS	TOLERANCES
<i>Cross Sections</i>	
0.040 to 0.069 (1.02-1.75)	±0.003 (±0.08)
0.070 to 0.100 (1.78-2.54)	±0.004 (±0.10)
0.101 to 0.200 (2.57-5.08)	±0.005 (±0.13)
0.201 to 0.350 (5.11-8.89)	±0.008 (±0.20)
<i>Inside Diameters</i>	
0.100 to 1.500 (2.54 to 38.10)	±0.010 (±0.25)
1.501 to 2.500 (38.13 to 63.50)	±0.015 (±0.38)
2.501 to 4.500 (63.53 to 114.30)	±0.020 (±0.51)
4.501 to 7.000 (114.33 to 177.80)	±0.025 (±0.64)
>7.000 (>177.80)	±0.35% of nom. dim.

Table 3 continued

O-RINGS			
Chomerics P/N* MIL P/N: M83528/ 00[ ]X <sup>†</sup> -( )	MS 29513 MS 9021 Dash No.	Dimensions	
		Cross Section (Diameter)	I.D.
10-00-1754-XXXX (NA)	—	0.101 (2.57)	2.805 (71.25)
10-00-1359-XXXX (NA)	—	0.101 (2.57)	3.153 (80.87)
10-00-1360-XXXX (NA)	—	0.101 (2.57)	3.613 (80.87)
10-00-1921-XXXX [2] (114)	—	0.103 (2.62)	0.612 (15.54)
10-00-1847-XXXX [2] (117)	—	0.103 (2.62)	0.799 (20.29)
10-00-4685-XXXX [5] (021)	—	0.103 (2.62)	1.040 (26.42)
10-00-2086-XXXX (NA)	—	0.103 (2.62)	1.240 (31.50)
10-00-1845-XXXX [2] (126)	—	0.103 (2.62)	1.362 (34.59)
10-00-2072-XXXX [2] (128)	128	0.103 (2.62)	1.487 (37.77)
10-00-1846-XXXX [5] (022)	130	0.103 (2.62)	1.612 (40.94)
10-00-2031-XXXX [2] (132)	132	0.103 (2.62)	1.737 (44.12)
10-00-2087-XXXX [5] (023)	—	0.103 (2.62)	1.790 (45.47)
10-00-2030-XXXX [2] (142)	142	0.103 (2.62)	2.362 (59.99)
10-00-1691-XXXX [2] (155)	—	0.103 (2.62)	3.987 (101.27)
10-00-1573-XXXX (NA)	—	0.115 (2.92)	2.876 (73.05)
10-00-1607-XXXX (NA)	—	0.147 (3.73)	2.265 (57.53)
10-00-1608-XXXX (NA)	—	0.147 (3.73)	3.690 (93.73)
10-00-1782-XXXX (NA)	—	0.188 (4.78)	0.673 (17.09)
10-00-1746-XXXX (NA)	—	0.210 (5.33)	3.475 (12.07)
10-00-1354-XXXX (NA)	—	0.243 (6.17)	3.409 (86.59)
10-00-1747-XXXX (NA)	—	0.394 (10.01)	3.464 (87.99)

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