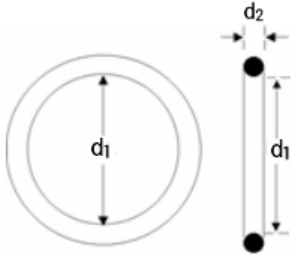




O-ring sizes

O-ring sizes and dimensions BS4518

Measuring an O-Ring



Materials

NBR	FKM/VIT	EPDM
HNBR	FFKM	Neoprene
PTFE	Silicone	Fluorosilicone

Other materials are available on request

Part No	Internal dia (d ₁) (d ₂) 1.6 ± 0.08mm	Tol±
0031-16	3.1	0.15
0041-16	4.1	0.15
0051-16	5.1	0.15
0061-16	6.1	0.15
0071-16	7.1	0.15
0081-16	8.1	0.15
0091-16	9.1	0.15
0101-16	10.1	0.20
0111-16	11.1	0.20
0121-16	12.1	0.20
0131-16	13.1	0.20
0141-16	14.1	0.20
0151-16	15.1	0.20
0161-16	16.1	0.20
0171-16	17.1	0.20
0181-16	18.1	0.25
0191-16	19.1	0.25
0221-16	22.1	0.25
0251-16	25.1	0.25
0271-16	27.1	0.25
0291-16	29.1	0.25
0321-16	32.1	0.30
0351-16	35.1	0.30
0371-16	37.1	0.30

Part No	Internal dia (d ₁) (d ₂) 2.4 ± 0.08mm	Tol±
0186-24	18.6	0.25
0196-24	19.6	0.25
0216-24	21.6	0.25
0246-24	24.6	0.25
0276-24	27.6	0.25
0296-24	29.6	0.25
0316-24	31.6	0.30
0346-24	34.6	0.30
0376-24	37.6	0.30
0396-24	39.6	0.30
0416-24	41.6	0.30
0446-24	44.6	0.30
0476-24	47.6	0.30
0496-24	49.6	0.30
0516-24	51.6	0.40
0546-24	54.6	0.40
0576-24	57.6	0.40
0596-24	59.6	0.40
0616-24	61.6	0.40
0646-24	64.6	0.40
0676-24	67.6	0.40
0696-24	69.6	0.40

(d ₂) 3.0 ± 0.10mm		
Part No	Internal dia (d ₁)	Tol±
0195-30	19.5	0.25
0215-30	21.5	0.25
0225-30	22.5	0.25
0245-30	24.5	0.25
0255-30	25.5	0.25
0265-30	26.5	0.25
0275-30	27.5	0.25
0295-30	29.5	0.25
0315-30	31.5	0.30
0325-30	32.5	0.30
0345-30	34.5	0.30
0355-30	35.5	0.30
0365-30	36.5	0.30
0375-30	37.5	0.30
0395-30	39.5	0.30
0415-30	41.5	0.30
0425-30	42.5	0.30

Part No	Internal dia (d ₁) (d ₂) 3.0 ± 0.10mm	Tol±
0445-30	44.5	0.30
0495-30	49.5	0.30
0545-30	54.5	0.40
0595-30	59.5	0.40
0645-30	64.5	0.40
0695-30	69.5	0.40
0745-30	74.5	0.40
0795-30	79.5	0.40
0845-30	84.5	0.50
0895-30	89.5	0.50
0945-30	94.5	0.50
0995-30	99.5	0.50
1045-30	104.5	0.50
1095-30	109.5	0.50
1145-30	114.5	0.50
1195-30	119.5	0.50
1245-30	124.5	0.60
1295-30	129.5	0.60
1345-30	134.5	0.60
1395-30	139.5	0.60
1445-30	144.5	0.60
1495-30	149.5	0.60
1545-30	154.5	0.60
1595-30	159.5	0.60
1645-30	164.5	0.60
1695-30	169.5	0.60
1745-30	174.5	0.60
1795-30	179.5	0.60
1845-30	184.5	0.80
1895-30	189.5	0.80
1945-30	194.5	0.80
1995-30	199.5	0.80
2095-30	209.5	0.80
2195-30	219.5	0.80
2295-30	229.5	0.80
2395-30	239.5	0.80
2495-30	249.5	0.80

(d ₂) 5.7 ± 0.12mm		
Part No	Internal dia (d ₁)	Tol±
0443-57	44.3	0.30
0453-57	45.3	0.30

Part No	Internal dia (d ₁) (d ₂) 5.7 ± 0.12mm	Tol±
0493-57	49.3	0.30
0523-57	52.3	0.40
0543-57	54.3	0.40
0593-57	59.3	0.40
0623-57	62.3	0.40
0643-57	64.3	0.40
0693-57	69.3	0.40
0743-57	74.3	0.40
0793-57	79.3	0.40
0843-57	84.3	0.50
0893-57	89.3	0.50
0943-57	94.3	0.50
0993-57	99.3	0.50
1043-57	104.3	0.50
1093-57	109.3	0.50
1143-57	114.3	0.50
1193-57	119.3	0.50
1243-57	124.3	0.60
1293-57	129.3	0.60
1343-57	134.3	0.60
1393-57	139.3	0.60
1443-57	144.3	0.60
1493-57	149.3	0.60
1543-57	154.3	0.60
1593-57	159.3	0.60
1643-57	164.3	0.60
1693-57	169.3	0.60
1743-57	174.3	0.60
1793-57	179.3	0.80
1843-57	184.3	0.80
1893-57	189.3	0.80
1943-57	194.3	0.80
1993-57	199.3	0.80
2093-57	209.3	0.80
2193-57	219.3	0.80
2293-57	229.3	0.80
2393-57	239.3	0.80
2493-57	249.3	0.80
2593-57	259.3	1.00
2693-57	269.3	1.00
2793-57	279.3	1.00

Part No	Internal dia (d ₁) (d ₂) 5.7 ± 0.12mm	Tol±
2993-57	299.3	1.00
3193-57	319.3	1.50
3393-57	339.3	1.50
3593-57	359.3	1.50
3793-57	379.3	1.50
3993-57	399.3	1.50
4193-57	419.3	2.00
4393-57	439.3	2.00
4593-57	459.3	2.00
4793-57	479.3	2.00
4993-57	499.3	2.00

(d ₂) 8.4 ± 0.15mm		
Part No	Internal dia (d ₁)	Tol±
1441-84	144.1	0.60
1491-84	149.1	0.60
1541-84	154.1	0.60
1591-84	159.1	0.60
1641-84	164.1	0.60
1741-84	174.1	0.60
1791-84	179.1	0.60
1841-84	184.1	0.80
1891-84	189.1	0.80
1941-84	194.1	0.80
1991-84	199.1	0.80
2041-84	204.1	0.80
2091-84	209.1	0.80
2191-84	219.1	0.80
2291-84	229.1	0.80
2341-84	234.1	0.80
2391-84	239.1	0.80
2491-84	249.1	0.80

(d ₂) 2.4 ± 0.08mm		
Part No	Internal dia (d ₁)	Tol±
0036-24	3.6	0.15
0046-24	4.6	0.15
0056-24	5.6	0.15
0066-24	6.6	0.15
0076-24	7.6	0.15
0086-24	8.6	0.15
0096-24	9.6	0.15
0106-24	10.6	0.20
0116-24	11.6	0.20
0126-24	12.6	0.20
0136-24	13.6	0.20
0146-24	14.6	0.20
0156-24	15.6	0.20
0166-24	16.6	0.20
0176-24	17.6	0.20



German metric

Part No	Internal dia (d ₁) (d ₂) 1.0 ± 0.08mm	Tol±
0020-10	2.0	0.15
0030-10	3.0	0.15
0035-10	3.5	0.15
0040-10	4.0	0.15
0050-10	5.0	0.15
0060-10	6.0	0.15
0070-10	7.0	0.15
0080-10	8.0	0.15
0090-10	9.0	0.15
0100-10	10.0	0.15
0110-10	11.0	0.20
0120-10	12.0	0.20
0130-10	13.0	0.20
0140-10	14.0	0.20
0150-10	15.0	0.20
0160-10	16.0	0.20
0170-10	17.0	0.20
0180-10	18.0	0.20
0190-10	19.0	0.25
0200-10	20.0	0.25
0220-10	22.0	0.25
0230-10	23.0	0.25
0240-10	24.0	0.25
0260-10	26.0	0.25
0280-10	28.0	0.25
0300-10	30.0	0.25
0320-10	32.0	0.30
0340-10	34.0	0.30
0380-10	38.0	0.30
0400-10	40.0	0.30

(d ₂) 1.5 ± 0.08mm		
Part No	Internal dia (d ₁)	Tol±
0020-15	2.0	0.15
0025-15	2.5	0.15
0030-15	3.0	0.15
0035-15	3.5	0.15
0040-15	4.0	0.15
0050-15	5.0	0.15
0060-15	6.0	0.15
0070-15	7.0	0.15
0080-15	8.0	0.15
0090-15	9.0	0.15
0100-15	10.0	0.15
0110-15	11.0	0.20
0120-15	12.0	0.20
0130-15	13.0	0.20
0140-15	14.0	0.20
0150-15	15.0	0.20
0160-15	16.0	0.20
0170-15	17.0	0.20
0180-15	18.0	0.20
0190-15	19.0	0.25
0200-15	20.0	0.25
0210-15	21.0	0.25
0220-15	22.0	0.25
0230-15	23.0	0.25
0240-15	24.0	0.25
0250-15	25.0	0.25
0260-15	26.0	0.25
0270-15	27.0	0.25
0280-15	28.0	0.25
0300-15	30.0	0.25
0310-15	31.0	0.30
0320-15	32.0	0.30
0340-15	34.0	0.30
0350-15	35.0	0.30
0360-15	36.0	0.30
0380-15	38.0	0.30

Part No	Internal dia (d ₁)	Tol±
0400-15	40.0	0.30
0410-15	41.0	0.30
0420-15	42.0	0.30
0450-15	45.0	0.30
0470-15	47.0	0.40
0480-15	48.0	0.40
0490-15	49.0	0.40
0500-15	50.0	0.40
0520-15	52.0	0.40
0540-15	54.0	0.40
0570-15	57.0	0.40
0650-15	65.0	0.40

(d ₂) 2.0 ± 0.08mm		
Part No	Internal dia (d ₁)	Tol±
0030-20	3.0	0.15
0040-20	4.0	0.15
0050-20	5.0	0.15
0060-20	6.0	0.15
0070-20	7.0	0.15
0080-20	8.0	0.15
0090-20	9.0	0.15
0100-20	10.0	0.15
0110-20	11.0	0.15
0120-20	12.0	0.20
0130-20	13.0	0.20
0140-20	14.0	0.20
0150-20	15.0	0.20
0160-20	16.0	0.20
0170-20	17.0	0.20
0180-20	18.0	0.20
0190-20	19.0	0.20
0200-20	20.0	0.25
0210-20	21.0	0.25
0220-20	22.0	0.25
0230-20	23.0	0.25
0240-20	24.0	0.25
0250-20	25.0	0.25
0260-20	26.0	0.25
0270-20	27.0	0.30
0280-20	28.0	0.30
0290-20	29.0	0.30
0300-20	30.0	0.30
0310-20	31.0	0.30
0320-20	32.0	0.30
0330-20	33.0	0.30
0340-20	34.0	0.30
0350-20	35.0	0.30
0360-20	36.0	0.30
0370-20	37.0	0.30
0380-20	38.0	0.30
0390-20	39.0	0.30
0400-20	40.0	0.30
0410-20	41.0	0.30
0420-20	42.0	0.30
0430-20	43.0	0.30
0440-20	44.0	0.30
0450-20	45.0	0.30
0460-20	46.0	0.30
0470-20	47.0	0.30
0480-20	48.0	0.30
0490-20	49.0	0.30
0500-20	50.0	0.40
0520-20	52.0	0.40
0530-20	53.0	0.40
0540-20	54.0	0.40
0550-20	55.0	0.40
0560-20	56.0	0.40
0570-20	57.0	0.40

Part No	Internal dia (d ₁)	Tol±
0580-20	58.0	0.40
0600-20	60.0	0.40
0620-20	62.0	0.40
0680-20	68.0	0.40
0730-20	73.0	0.40
0750-20	75.0	0.40
0800-20	80.0	0.40
0850-20	85.0	0.50
0900-20	90.0	0.50
1000-20	100.0	0.50

(d ₂) 2.5 ± 0.08mm		
Part No	Internal dia (d ₁)	Tol±
0030-25	3.0	0.15
0040-25	4.0	0.15
0050-25	5.0	0.15
0060-25	6.0	0.15
0070-25	7.0	0.15
0080-25	8.0	0.15
0090-25	9.0	0.15
0100-25	10.0	0.15
0110-25	11.0	0.20
0120-25	12.0	0.20
0130-25	13.0	0.20
0140-25	14.0	0.20
0150-25	15.0	0.20
0160-25	16.0	0.20
0170-25	17.0	0.20
0180-25	18.0	0.20
0190-25	19.0	0.25
0200-25	20.0	0.25
0210-25	21.0	0.25
0220-25	22.0	0.25
0230-25	23.0	0.25
0240-25	24.0	0.25
0250-25	25.0	0.25
0260-25	26.0	0.25
0270-25	27.0	0.25
0280-25	28.0	0.25
0290-25	29.0	0.25
0300-25	30.0	0.25
0310-25	31.0	0.30
0320-25	32.0	0.30
0330-25	33.0	0.30
0340-25	34.0	0.30
0350-25	35.0	0.30
0360-25	36.0	0.30
0370-25	37.0	0.30
0380-25	38.0	0.30
0390-25	39.0	0.30
0400-25	40.0	0.30
0410-25	41.0	0.30
0420-25	42.0	0.30
0430-25	43.0	0.30
0440-25	44.0	0.30
0450-25	45.0	0.30
0460-25	46.0	0.30
0470-25	47.0	0.30
0480-25	48.0	0.30
0490-25	49.0	0.30
0500-25	50.0	0.40
0520-25	52.0	0.40
0530-25	53.0	0.40
0540-25	54.0	0.40
0550-25	55.0	0.40
0560-25	56.0	0.40
0570-25	57.0	0.40
0580-25	58.0	0.40
0600-25	60.0	0.40

Part No	Internal dia (d ₁)	Tol±
0620-25	62.0	0.40
0680-25	68.0	0.40
0730-25	73.0	0.40
0750-25	75.0	0.40
0760-25	76.0	0.40
0780-25	78.0	0.40
0800-25	80.0	0.50
0850-25	85.0	0.50
0900-25	90.0	0.50
0950-25	95.0	0.50
1000-25	100.0	0.50

(d ₂) 3.0 ± 0.08mm		
Part No	Internal dia (d ₁)	Tol±
0040-30	4.0	0.15
0050-30	5.0	0.15
0060-30	6.0	0.15
0070-30	7.0	0.15
0080-30	8.0	0.15
0090-30	9.0	0.15
0100-30	10.0	0.15
0110-30	11.0	0.20
0120-30	12.0	0.20
0130-30	13.0	0.20
0140-30	14.0	0.20
0150-30	15.0	0.20
0160-30	16.0	0.20
0170-30	17.0	0.20
0180-30	18.0	0.20
0190-30	19.0	0.25
0200-30	20.0	0.25
0210-30	21.0	0.25
0220-30	22.0	0.25
0230-30	23.0	0.25
0240-30	24.0	0.25
0250-30	25.0	0.25
0260-30	26.0	0.25
0270-30	27.0	0.25
0280-30	28.0	0.25
0290-30	29.0	0.25
0300-30	30.0	0.30
0310-30	31.0	0.30
0320-30	32.0	0.30
0340-30	34.0	0.30
0350-30	35.0	0.30
0360-30	36.0	0.30
0370-30	37.0	0.30
0380-30	38.0	0.30
0390-30	39.0	0.30
0400-30	40.0	0.30
0410-30	41.0	0.30
0420-30	42.0	0.30
0430-30	43.0	0.30
0440-30	44.0	0.30
0450-30	45.0	0.30
0460-30	46.0	0.30
0470-30	47.0	0.30
0480-30	48.0	0.30
0500-30	50.0	0.40
0510-30	51.0	0.40
0520-30	52.0	0.40
0530-30	53.0	0.40
0540-30	54.0	0.40
0550-30	55.0	0.40
0560-30	56.0	0.40
0570-30	57.0	0.40
0580-30	58.0	0.40
0590-30	59.0	0.40
0600-30	60.0	0.40



Part No	Internal dia (d ₁) (d ₂) 3.0 ± 0.08mm	Tol±
0620-30	62.0	0.40
0630-30	63.0	0.40
0640-30	64.0	0.40
0650-30	65.0	0.40
0660-30	66.0	0.40
0670-30	67.0	0.40
0680-30	68.0	0.40
0690-30	69.0	0.40
0700-30	70.0	0.40
0710-30	71.0	0.40
0720-30	72.0	0.40
0730-30	73.0	0.40
0740-30	74.0	0.40
0750-30	75.0	0.40
0760-30	76.0	0.40
0780-30	78.0	0.40
0800-30	80.0	0.50
0820-30	82.0	0.50
0830-30	83.0	0.50
0840-30	84.0	0.50
0850-30	85.0	0.50
0860-30	86.0	0.50
0800-30	80.0	0.50
0890-30	89.0	0.50
0900-30	90.0	0.50
0950-30	95.0	0.50
1000-30	100.0	0.50
1050-30	105.0	0.50
1100-30	110.0	0.50
1150-30	115.0	0.50
1200-30	120.0	0.60
1250-30	125.0	0.60
1300-30	130.0	0.60
1350-30	135.0	0.60
1400-30	140.0	0.60
1450-30	145.0	0.60
1500-30	150.0	0.60
1550-30	155.0	0.60
1600-30	160.0	0.60
1650-30	165.0	0.60
1700-30	170.0	0.60
1750-30	175.0	0.60
1800-30	180.0	0.80
1850-30	185.0	0.80
1900-30	190.0	0.80

Part No	Internal dia (d ₁) (d ₂) 3.0 ± 0.08mm	Tol±
1950-30	195.0	0.80
2000-30	200.0	0.80
2050-30	205.0	0.80
2100-30	210.0	0.80
2200-30	220.0	0.80
2300-30	230.0	0.80
2400-30	240.0	0.80
2500-30	250.0	0.80

(d ₂) 4.0 ± 0.10mm		
0100-40	10	0.20
0110-40	11	0.20
0120-40	12	0.20
0130-40	13	0.20
0140-40	14	0.20
0150-40	15	0.20
0160-40	16	0.20
0170-40	17	0.20
0180-40	18	0.20
0190-40	19	0.25
0200-40	20	0.25
0210-40	21	0.25
0220-40	22	0.25
0230-40	23	0.25
0240-40	24	0.25
0250-40	25	0.25
0260-40	26	0.25
0270-40	27	0.25
0280-40	28	0.25
0300-40	30	0.25
0310-40	31	0.30
0320-40	32	0.30
0330-40	33	0.30
0340-40	34	0.30
0350-40	35	0.30
0360-40	36	0.30
0380-40	38	0.30
0400-40	40	0.30
0450-40	45	0.30
0460-40	46	0.30
0470-40	47	0.30
0480-40	48	0.30
0490-40	49	0.30
0500-40	50	0.40
0520-40	52	0.40

Part No	Internal dia (d ₁) (d ₂) 4.0 ± 0.10mm	Tol±
0540-40	54	0.40
0550-40	55	0.40
0560-40	56	0.40
0570-40	57	0.40
0580-40	58	0.40
0590-40	59	0.40
0600-40	60	0.40
0650-40	65	0.40
0700-40	70	0.40
0730-40	73	0.40
0750-40	75	0.40
0800-40	80	0.40
0850-40	85	0.50
0900-40	90	0.50
0920-40	92	0.50
0950-40	95	0.50
1000-40	100	0.50
1100-40	110	0.50
1300-40	130	0.60
1400-40	140	0.60
1460-40	146	0.60

(d ₂) 5.0 ± 0.13mm		
0080-50	8	0.20
0090-50	9	0.20
0100-50	10	0.20
0110-50	11	0.20
0120-50	12	0.20
0130-50	13	0.20
0140-50	14	0.20
0150-50	15	0.20
0160-50	16	0.20
0170-50	17	0.20
0180-50	18	0.20
0190-50	19	0.25
0200-50	20	0.25
0210-50	21	0.25
0220-50	22	0.25
0230-50	23	0.25
0240-50	24	0.25
0250-50	25	0.25
0270-50	27	0.25
0280-50	28	0.25
0300-50	30	0.30
0330-50	33	0.30

Part No	Internal dia (d ₁) (d ₂) 4.0 ± 0.10mm	Tol±
0340-50	34	0.30
0350-50	35	0.30
0360-50	36	0.30
0380-50	38	0.30
0400-50	40	0.30
0420-50	42	0.30
0450-50	45	0.30
0480-50	48	0.30
0500-50	50	0.40
0520-50	52	0.40
0530-50	53	0.40
0550-50	55	0.40
0570-50	57	0.40
0590-50	59	0.40
0600-50	60	0.40
0650-50	65	0.40
0700-50	70	0.40
0750-50	75	0.40
0800-50	80	0.40
0850-50	85	0.50
0900-50	90	0.50
0950-50	95	0.50
1000-50	100	0.50

(d ₂) 6.0 ± 0.15mm		
0150-60	15	0.20
0180-60	18	0.20
0200-60	20	0.25
0210-60	21	0.25
0250-60	25	0.25
0300-60	30	0.30
0400-60	40	0.30
0450-60	45	0.30
0500-60	50	0.40
0550-60	55	0.40
0600-60	60	0.40
0700-60	70	0.40

French Metric

Part No	Internal dia (d ₁) (d ₂) 3.0 ± 0.08mm	Tol±
0026-19 (R1)	2.6	0.15
0034-19 (R2)	3.4	0.15
0042-19 (R3)	4.2	0.15
0049-19 (R4)	4.9	0.15
0057-19 (R5)	5.7	0.15
0064-19 (R6A)	6.4	0.15
0072-19 (R6)	7.2	0.15
0080-19 (R6A)	8	0.15
0089-19 (R7)	8.9	0.15

Part No	Internal dia (d ₁) (d ₂) 3.0 ± 0.08mm	Tol±
0089-27 (R8)	8.9	0.15
0105-27 (R9)	10.5	0.20
0121-27 (R10)	12.1	0.20
0136-27 (R11)	13.6	0.20
0151-27 (R12)	15.1	0.20
0169-27 (R13)	16.9	0.20
0184-27 (R14)	18.4	0.20
0294-27 (R14A)	29.4	0.20

Part No	Internal dia (d ₁) (d ₂) 3.0 ± 0.08mm	Tol±
0183-36 (R15)	18.3	0.25
0198-36 (R16)	19.8	0.25
0213-36 (R17)	21.3	0.25
0230-36 (R18)	23	0.25
0246-36 (R19)	24.6	0.25
0262-36 (R20)	26.2	0.25
0278-36 (R21)	27.8	0.25
0293-36 (R22)	29.3	0.25
0308-36 (R23)	30.8	0.30
0325-36 (R24)	32.5	0.30

Part No	Internal dia (d ₁) (d ₂) 3.0 ± 0.08mm	Tol±
0341-36 (R25)	34.1	0.30
0356-36 (R26)	35.6	0.30
0373-36 (R27)	37.3	0.30