

JAM NUT SEALS

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Product Overview

Jam nut seals are o-rings that are designed to shield against radio frequency interference / electro-magnetic interference (RFI/EMI).

Jam Nut Seals

Jam nut seals are compression moulded, and do not include a join like vulcanised-joined o-rings. Moulding is essential where small cross section and/or small inside diameter is required. If the O-Ring is to fit in a groove, it is important that the O-Ring does not over-fill the groove. The cross-sectional area of the groove must be a minimum of 5% greater than the O-Ring's cross-sectional area. Attention must be paid to ensure the closing force available will deflect the the O-Ring to the required working height. For more information, read the 114-specification for this product range.

Compliance

Jam nut seals are compliant with :

- MIL-DTL-38999
- MIL-DTL-26482
- MIL-DTL-81511

Tolerances

Inside diameter (ID)
Less than 38.1mm ±0.25mm
38.1mm - 50.8mm ±0.38mm

Cross section diameter (CS)
1.8mm ±0.1mm
2.6mm ±0.13mm

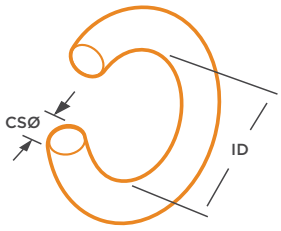
Moulded Tolerances

- Maximum tooling mismatch 0.08mm
- Flash and parting line projection:
- Maximum thickness 0.15mm
- Maximum protrusion 0.15mm

The choice of jam nut seal (JNS) materials includes

MATERIAL	MATERIAL CODE
Silicone Nickel Graphite	SNG
Fluorosilicone Nickel Graphite	FNG
Silicone Silver Aluminum	SSA
Fluorosilicone Silver Aluminum	FSA
Silicone Nickel Aluminium	SNA
Fluorosilicone Nickel Aluminium	FNA

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CSØ - Cross Section Diameter

ID - Inside Diameter

MIL-DTL-38999 / MIL-DTL-26482

TCPN	PART DESCRIPTION	FILLER MATERIAL	PETROLEUM RESISTANCE	VOLUME RESISTIVITY (MAX) (OHMCM)	CROSS SECTION DIAMETER [INCH]	CROSS SECTION DIAMETER [MM]	INSIDE DIAMETER (INCH)	INSIDE DIAMETER (MM)	OPERATING TEMPERATURE RANGE (C°)	OPERATING TEMPERATURE RANGE (F°)	SHELL SIZE
2430093-1	JNS O-Ring SNG 38999 Shell 6	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	0.551	14	-55 – 160	-67 – 320	6
2430094-1	JNS O-Ring SNG 38999 Shell 8	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	0.677	17.2	-55 – 160	-67 – 320	8
2430095-1	JNS O-Ring SNG 38999 Shell 9 & 10	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	0.803	20.4	-55 – 160	-67 – 320	9
2430096-1	JNS O-Ring SNG 38999 Shell 11 & 12	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	0.988	25.1	-55 – 160	-67 – 320	11
2430097-1	JNS O-Ring SNG 38999 Shell 13 & 14	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	1.114	28.3	-55 – 160	-67 – 320	13
2430098-1	JNS O-Ring SNG 38999 Shell 15 & 16	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	1.24	31.5	-55 – 160	-67 – 320	15
2430099-1	JNS O-Ring SNG 38999 Shell 17 & 18	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	1.366	34.7	-55 – 160	-67 – 320	17
2430100-1	JNS O-Ring SNG 38999 Shell 19 & 20	Nickel Plated Graphite (Ni/C)	No	.05	0.102	2.6	1.476	37.5	-55 – 160	-67 – 320	19
2430101-1	JNS O-Ring SNG 38999 Shell 21 & 22	Nickel Plated Graphite (Ni/C)	No	.05	0.102	2.6	1.61	40.9	-55 – 160	-67 – 320	21
2430102-1	JNS O-Ring SNG 38999 Shell 23 & 24	Nickel Plated Graphite (Ni/C)	No	.05	0.102	2.6	1.736	44.1	-55 – 160	-67 – 320	23
2430103-1	JNS O-Ring SNG 38999 Shell 25	Nickel Plated Graphite (Ni/C)	No	.05	0.102	2.6	1.862	47.3	-55 – 160	-67 – 320	25
2430104-1	JNS O-Ring FNG 38999 Shell 6	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	0.551	14	-55 – 160	-67 – 320	6
2430105-1	JNS O-Ring FNG 38999 Shell 8	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	0.677	17.2	-55 – 160	-67 – 320	8
2430106-1	JNS O-Ring FNG 38999 Shell 9 & 10	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	0.803	20.4	-55 – 160	-67 – 320	9
2430107-1	JNS O-Ring FNG 38999 Shell 11 & 12	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	0.988	25.1	-55 – 160	-67 – 320	11
2430108-1	JNS O-Ring FNG 38999 Shell 13 & 14	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	1.114	28.3	-55 – 160	-67 – 320	13
2430109-1	JNS O-Ring FNG 38999 Shell 15 & 16	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	1.24	31.5	-55 – 160	-67 – 320	15
2430110-1	JNS O-Ring FNG 38999 Shell 17 & 18	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	1.366	34.7	-55 – 160	-67 – 320	17
2430111-1	JNS O-Ring FNG 38999 Shell 19 & 20	Nickel Plated Graphite (Ni/C)	Yes	.05	0.102	2.6	1.476	37.5	-55 – 160	-67 – 320	19
2430112-1	JNS O-Ring FNG 38999 Shell 21 & 22	Nickel Plated Graphite (Ni/C)	Yes	.05	0.102	2.6	1.61	40.9	-55 – 160	-67 – 320	21
2430113-1	JNS O-Ring FNG 38999 Shell 23 & 24	Nickel Plated Graphite (Ni/C)	Yes	.05	0.102	2.6	1.736	44.1	-55 – 160	-67 – 320	23
2430114-1	JNS O-Ring FNG 38999 Shell 25	Nickel Plated Graphite (Ni/C)	Yes	.05	0.102	2.6	1.862	47.3	-55 – 160	-67 – 320	25
2430115-1	JNS O-Ring SSA 38999 Shell 6	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	0.551	14	-55 – 160	-67 – 320	6

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MIL-DTL-38999 / MIL-DTL-26482 (Cont.)

TCPN	PART DESCRIPTION	FILLER MATERIAL	PETROLEUM RESISTANCE	VOLUME RESISTIVITY (MAX) (OHMCM)	CROSS SECTION DIAMETER [INCH]	CROSS SECTION DIAMETER [MM]	INSIDE DIAMETER (INCH)	INSIDE DIAMETER (MM)	OPERATING TEMPERATURE RANGE (C°)	OPERATING TEMPERATURE RANGE (F°)	SHELL SIZE
2430116-1	JNS O-Ring SSA 38999 Shell 8	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	0.677	17.2	-55 – 160	-67 – 320	8
2430117-1	JNS O-Ring SSA 38999 Shell 9 & 10	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	0.803	20.4	-55 – 160	-67 – 320	9
2430118-1	JNS O-Ring SSA 38999 Shell 11 & 12	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	0.988	25.1	-55 – 160	-67 – 320	11
2430119-1	JNS O-Ring SSA 38999 Shell 13 & 14	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	1.114	28.3	-55 – 160	-67 – 320	13
2430120-1	JNS O-Ring SSA 38999 Shell 15 & 16	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	1.24	31.5	-55 – 160	-67 – 320	15
2430121-1	JNS O-Ring SSA 38999 Shell 17 & 18	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	1.366	34.7	-55 – 160	-67 – 320	17
2430122-1	JNS O-Ring SSA 38999 Shell 19 & 20	Silver Plated Aluminum (Ag/Al)	No	.008	0.102	2.6	1.476	37.5	-55 – 160	-67 – 320	19
2430123-1	JNS O-Ring SSA 38999 Shell 21 & 22	Silver Plated Aluminum (Ag/Al)	No	.008	0.102	2.6	1.61	40.9	-55 – 160	-67 – 320	21
2430124-1	JNS O-Ring SSA 38999 Shell 23 & 24	Silver Plated Aluminum (Ag/Al)	No	.008	0.102	2.6	1.736	44.1	-55 – 160	-67 – 320	23
2430125-1	JNS O-Ring SSA 38999 Shell 25	Silver Plated Aluminum (Ag/Al)	No	.008	0.102	2.6	1.862	47.3	-55 – 160	-67 – 320	25
2430126-1	JNS O-Ring FSA 38999 Shell 6	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	0.551	14	-55 – 160	-67 – 320	6
2430127-1	JNS O-Ring FSA 38999 Shell 8	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	0.677	17.2	-55 – 160	-67 – 320	8
2430128-1	JNS O-Ring FSA 38999 Shell 9 & 10	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	0.803	20.4	-55 – 160	-67 – 320	9
2430129-1	JNS O-Ring FSA 38999 Shell 11 & 12	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	0.988	25.1	-55 – 160	-67 – 320	11
2430130-1	JNS O-Ring FSA 38999 Shell 13 & 14	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	1.114	28.3	-55 – 160	-67 – 320	13
2430131-1	JNS O-Ring FSA 38999 Shell 15 & 16	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	1.24	31.5	-55 – 160	-67 – 320	15
2430132-1	JNS O-Ring FSA 38999 Shell 17 & 18	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	1.366	34.7	-55 – 160	-67 – 320	17
2430133-1	JNS O-Ring FSA 38999 Shell 19 & 20	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.102	2.6	1.476	37.5	-55 – 160	-67 – 320	19
2430134-1	JNS O-Ring FSA 38999 Shell 21 & 22	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.102	2.6	1.61	40.9	-55 – 160	-67 – 320	21
2430135-1	JNS O-Ring FSA 38999 Shell 23 & 24	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.102	2.6	1.736	44.1	-55 – 160	-67 – 320	23
2430136-1	JNS O-Ring FSA 38999 Shell 25	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.102	2.6	1.862	47.3	-55 – 160	-67 – 320	25

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MIL-DTL-38999 / MIL-DTL-26482 (Cont.)

TCPN	PART DESCRIPTION	FILLER MATERIAL	PETROLEUM RESISTANCE	VOLUME RESISTIVITY (MAX) (OHMCM)	CROSS SECTION DIAMETER [INCH]	CROSS SECTION DIAMETER [MM]	INSIDE DIAMETER (INCH)	INSIDE DIAMETER (MM)	OPERATING TEMPERATURE RANGE (C°)	OPERATING TEMPERATURE RANGE (F°)	SHELL SIZE
2488724-1	JNS O-Ring SNA 38999 Shell 6	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.071	1.8	0.551	14	-55 - 125	-67 - 257	6
2488725-1	JNS O-Ring SNA 38999 Shell 8	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.071	1.8	0.677	17.2	-55 - 125	-67 - 257	8
2488726-1	JNS O-Ring SNA 38999 Shell 9 & 10	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.071	1.8	0.803	20.4	-55 - 125	-67 - 257	9
2488727-1	JNS O-Ring SNA 38999 Shell 11 & 12	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.071	1.8	0.988	25.1	-55 - 125	-67 - 257	11
2488728-1	JNS O-Ring SNA 38999 Shell 13 & 14	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.071	1.8	1.114	28.3	-55 - 125	-67 - 257	13
2488729-1	JNS O-Ring SNA 38999 Shell 15 & 16	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.071	1.8	1.24	31.5	-55 - 125	-67 - 257	15
2488730-1	JNS O-Ring SNA 38999 Shell 17 & 18	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.071	1.8	1.366	34.7	-55 - 125	-67 - 257	17
2488731-1	JNS O-Ring SNA 38999 Shell 19 & 20	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.102	2.6	1.476	37.5	-55 - 125	-67 - 257	19
2488732-1	JNS O-Ring SNA 38999 Shell 21 &22	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.102	2.6	1.61	40.9	-55 - 125	-67 - 257	21
2488733-1	JNS O-Ring SNA 38999 Shell 23 & 24	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.102	2.6	1.736	44.1	-55 - 125	-67 - 257	23
2488734-1	JNS O-Ring SNA 38999 Shell 25	Nickel Plated Aluminium (Ni/Al)	No	0.1	0.102	2.6	1.862	47.3	-55 - 125	-67 - 257	25
2488735-1	JNS O-Ring FNA 38999 Shell 6	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.071	1.8	0.551	14	-55 - 125	-67 - 257	6
2488736-1	JNS O-Ring FNA 38999 Shell 8	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.071	1.8	0.677	17.2	-55 - 125	-67 - 257	8
2488737-1	JNS O-Ring FNA 38999 Shell 9 & 10	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.071	1.8	0.803	20.4	-55 - 125	-67 - 257	9
2488738-1	JNS O-Ring FNA 38999 Shell 11 & 12	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.071	1.8	0.988	25.1	-55 - 125	-67 - 257	11
2488739-1	JNS O-Ring FNA 38999 Shell 13 & 14	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.071	1.8	1.114	28.3	-55 - 125	-67 - 257	13
2488740-1	JNS O-Ring FNA 38999 Shell 15 & 16	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.071	1.8	1.24	31.5	-55 - 125	-67 - 257	15
2488741-1	JNS O-Ring FNA 38999 Shell 17 & 18	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.071	1.8	1.366	34.7	-55 - 125	-67 - 257	17
2488742-1	JNS O-Ring FNA 38999 Shell 19 & 20	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.102	2.6	1.476	37.5	-55 - 125	-67 - 257	19
2488743-1	JNS O-Ring FNA 38999 Shell 21 &22	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.102	2.6	1.61	40.9	-55 - 125	-67 - 257	21
2488744-1	JNS O-Ring FNA 38999 Shell 23 & 24	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.102	2.6	1.736	44.1	-55 - 125	-67 - 257	23
2488745-1	JNS O-Ring FNA 38999 Shell 25	Nickel Plated Aluminium (Ni/Al)	Yes	0.1	0.102	2.6	1.862	47.3	-55 - 125	-67 - 257	25

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MIL-DTL-81511

TCPN	PART DESCRIPTION	FILLER MATERIAL	PETROLEUM RESISTANCE	VOLUME RESISTIVITY (MAX) (OHMCM)	CROSS SECTION DIAMETER [INCH]	CROSS SECTION DIAMETER [MM]	INSIDE DIAMETER (INCH)	INSIDE DIAMETER (MM)	OPERATING TEMPERATURE RANGE (C°)	OPERATING TEMPERATURE RANGE (F°)	SHELL SIZE
2430221-1	JNS O-Ring SNG 81511 Shell 8	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	0.74	18.8	-55 – 160	-67 – 320	8
2430222-1	JNS O-Ring SNG 81511 Shell 9 & 10	Nickel Plated Graphite (Ni/C)	No	.05	0.071	1.8	0.866	22	-55 – 160	-67 – 320	9
2430223-1	JNS O-Ring FNG 81511 Shell 8	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	0.74	18.8	-55 – 160	-67 – 320	8
2430224-1	JNS O-Ring FNG 81511 Shell 9 & 10	Nickel Plated Graphite (Ni/C)	Yes	.05	0.071	1.8	0.866	22	-55 – 160	-67 – 320	9
2430225-1	JNS O-Ring SSA 81511 Shell 8	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	0.74	18.8	-55 – 160	-67 – 320	8
2430226-1	JNS O-Ring SSA 81511 Shell 9 & 10	Silver Plated Aluminum (Ag/Al)	No	.008	0.071	1.8	0.866	22	-55 – 160	-67 – 320	9
2430227-1	JNS O-Ring FSA 81511 Shell 8	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	0.74	18.8	-55 – 160	-67 – 320	8
2430228-1	JNS O-Ring FSA 81511 Shell 9 & 10	Silver Plated Aluminum (Ag/Al)	Yes	.012	0.071	1.8	0.866	22	-55 – 160	-67 – 320	9

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