

## Mega size O Ring

Section vulcanized product in China, for Mega size, no MOQ.  
The section vulcanization doesn't need the exclusive mold and it can produce multi-sizes and small QTY for the mega size in the short time.

Once the inner diameter is bigger than 400mm, whatever the inner diameter is 5M or 15M, we can vulcanize by section  
Comparison with the mold vulcanization, the surface, accuracy and strength is equivalent (the joint strength keeps the same as well)  
The molds for the O ring cross section between 3~20mm are completely available

# XLONG Mega size O Ring



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# Product Description

## O Ring Inner Diameter(>400mm)

[Section vulcanized o ring](#) [Section vulcanized delta sealing ring](#) [Section vulcanized square sealing ring](#)

Section vulcanization is the compound is vulcanized by continuous section without joint

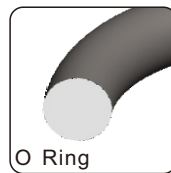
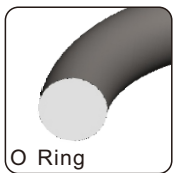
Once the cross section is the same, only one mold is applied for any size of the inner diameter

For instance, the C/S is 10mm, the section vulcanization can produce any size o ring for the inner diameter from 400 to 5000mm, even bigger than 5000mm

### 1. Compound applied for section vulcanization:

Compound	Hardness Shore A	color
NBR	70-90	black
HNBR	70-95	black/green
FKM	70-95	black/brown/green
VMQ	60-80	several colors

### 2. Section vulcanization O Ring smallest inner diameter table



C/S(mm)	Smallest ID(mm)
φ3	ID> 400
φ3.1	ID> 400
φ3.53	ID> 400
φ4	ID> 400
φ4.5	ID> 400
φ5	ID> 400
φ5.33	ID> 400
φ5.7	ID> 400
φ6	ID> 400
φ6.5	ID> 400
φ6.99	ID> 400
φ7.5	ID> 400
φ8	ID> 400
φ8.4	ID> 400

C/S(mm)	Smallest ID(mm)
φ9	ID> 400
φ9.5	ID> 400
φ10	ID> 400
φ11	ID> 500
φ12	ID> 500
φ13	ID> 500
φ14	ID> 500
φ15	ID> 500
φ16	ID> 500
φ17	ID> 500
φ18	ID> 500
φ19	ID> 500
φ20	ID> 500
φ22	ID> 500

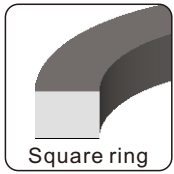
### 3. Section vulcanization delta Ring smallest inner diameter table



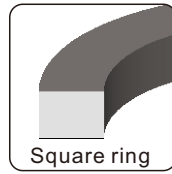
Delta section (height*width)	Relative inner diameter (mm)
5.5*8	300
7*9	460
10.8*13.6	950

# Technical Information

## 4. Section vulcanization square Ring smallest inner diameter table

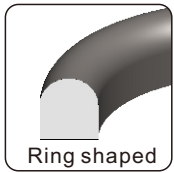


Square section(height*width)	Relative inner diameter(mm)
5*5	ID> 400
6*6	ID> 400
8*8	ID> 400
10*10	ID> 400
12*12	ID> 500

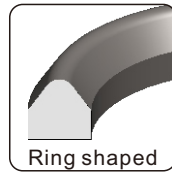


Square section(height*width)	Relative inner diameter (mm)
15*15	ID> 500
16*16	ID> 500
19*19	ID> 500
20*20	ID> 500

## 5. Section vulcanization Ring shaped smallest inner diameter table



Ring shaped(height * width)	Relative inner diameter(mm)
5*5	ID> 400
6*6	ID> 400
8*8	ID> 400



Ring shaped (height *width)	Relative inner diameter (mm)
6*6	ID> 400
8*8	ID> 400
10*10	ID> 400

## 6. Section vulcanization O Ring inner diameter tolerance table ( NBR/FKM/HNBR )

O ring ID(mm)	ID tolerance(mm)
400> ID < 500	± 3.5
500> ID < 600	± 4.0
600> ID < 700	± 5
700> ID < 800	± 5.2
800> ID < 900	± 6
900> ID < 1000	± 6.5
1000> ID < 1500	± 8
1500> ID < 1700	± 10
1700> ID < 2000	± 12.5
2000> ID < 2500	± 13
2500> ID < 3000	± 14
3000> ID < 3500	± 15
4000> ID < 4500	± 16
4500> ID < 5000	± 17
Bigger than 5000	± 0.25

## Section vulcanization O Ring cross section tolerance table ( NBR/FKM/HNBR )

o-ring C/S(mm)	C/S tolerance(mm)
1.8-2.64	±0.1
2.65-3.54	±0.1
3.55-5.29	±0.1
5.3-6.99	±0.15
7.0-8.0	±0.2
8.1-10.0	±0.25
10.01-15	±0.3
15.01-25	±0.42

The VMQ has 1.4times tolerance than the above table

## Section vulcanization

The ring is continually vulcanized by section in one mold and form the whole ring, the section vulcanization performance is equivalent with the sized mold vulcanization.

Comparison of three workmanship	Glue spliced	Warm vulcanization	Section vulcanization
Hardness	×	△	○
Surface	×	×	○
Property	△	△	○
Leadtime	○	△	△

×:poor, △:general ○:good

There is obvious joint and joint difference at the end for the glue spliced and warm vulcanization. The section vulcanization has no connection, what we strongly recommend.



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