



Fluid Power Specialist



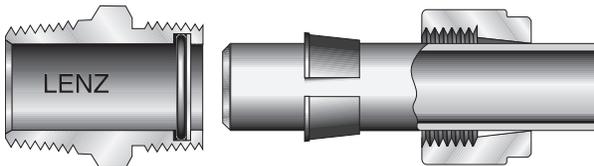
## O-Ring Seal Tube Fittings

### The Pressure Is The Sealing Force

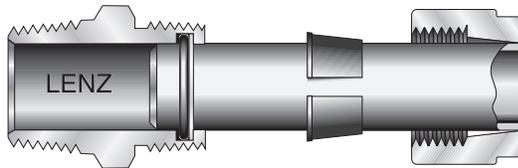
- The Only Tube Fittings of Their Kind • Why They Are Exclusively Different
- How They Save You Time and Costs • How They Perform • How to Assemble



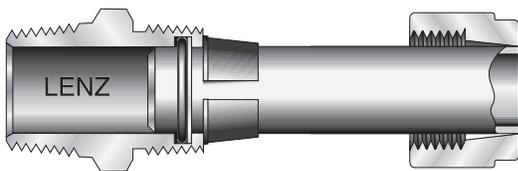
**A. DEBURR THE TUBE** - Prevents cutting the O-Ring.  
Not necessary to cut the tube square.



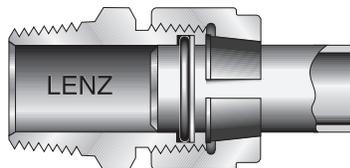
**B. SLIDE NUT and TAPERED SPLIT RING ON TUBE.**  
The large end of the tapered ring should face the fitting.



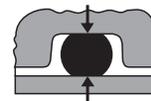
**C. OIL THE O-RING** - Then insert the tube past the O-Ring.



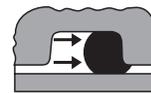
**D. SLIDE TAPERED SPLIT RING** - Slide up to the fitting.



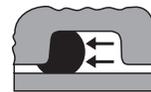
**E. TIGHTEN NUT HAND TIGHT** - then with wrench tighten one turn or until the rear of the tapered ring is flush with the nut.



**AT ZERO PRESSURE.** When the tube is inserted in the fitting past the O-Ring there is a slight compression and the resiliency of the O-Ring makes a secure, lasting seal!



**UNDER PRESSURE.** The pressure is the sealing force, pushing the O-Ring to the edge of the groove. As pressure increases the O-Ring "knows" making the seal tighter!



**UNDER VACUUM OR SUCTION.** If vacuum or suction is applied the O-Ring "Intelligence" recognizes the condition and reverses its action to seal just as tightly!

**HOW THE SPLIT RING GRIPS**  
- Note the taper. As nut is tightened the ring is wrapped around the tube, gripping it in like manner to a locking collet in a chuck. This principle grips and locks tighter and stronger as the pressure increases. Note that the nut has nothing to do with the seal . . . It is separate!

Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves.



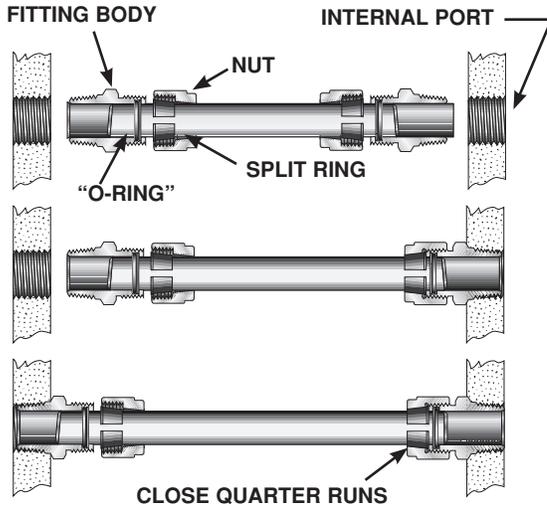


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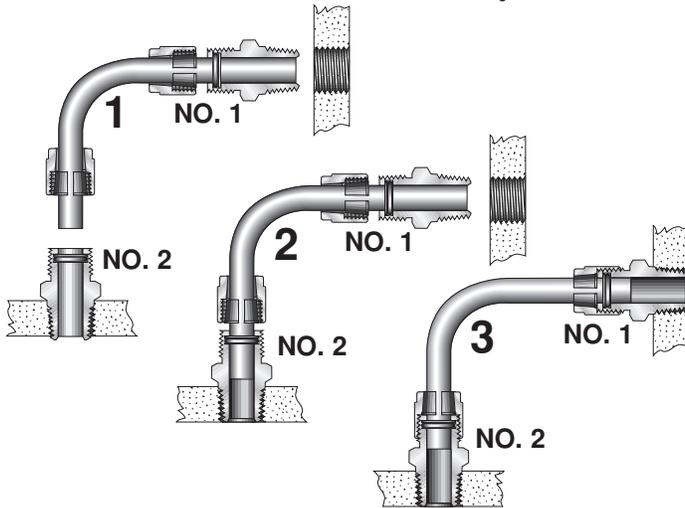


## O-Ring Seal Tube Fittings

Only Lenz "O-ring" Seal Fittings can solve these difficult installations



1. Cut tube maximum length allowable. Deburr tube end so that it does not cut O-Ring.
2. Slide nut, tapered split ring and body on each end of tube.
3. Insert and tighten one fitting in port. Slide tapered split ring up to fitting body and tighten nut.
4. Slide remaining fitting to port, insert and tighten in regular manner.

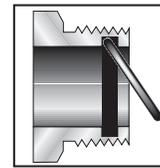


### SHORT BENDS

1. Deburr tube end. Slide nut, tapered split ring and fitting body No. 1 on end of tube.
2. Slide only the nut and tapered split ring on other end. Insert fitting body No. 2 into port.
3. Push tube into installed fitting body No. 2 until other end of tube is aligned with the other port.
4. Install fitting body No. 1 into port. Slide both split rings up to fitting bodies and tighten in regular manner.

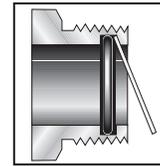
When ordering lenz fittings in all stainless steel add ss to the part number. Example: 100-12-12-ss The lenz fitting comes to you with the o-ring and teflon back-up washer installed complete.

### Proper Installation Of O-ring & Teflon Back-up Washer

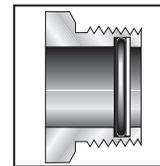


Install "O-ring" First

"O-RING"



Then work in Teflon back-up washer on the side of the "O-ring" toward the opening. OIL the "O-Ring"



"O-ring" And Teflon Back-up Washer In Place

