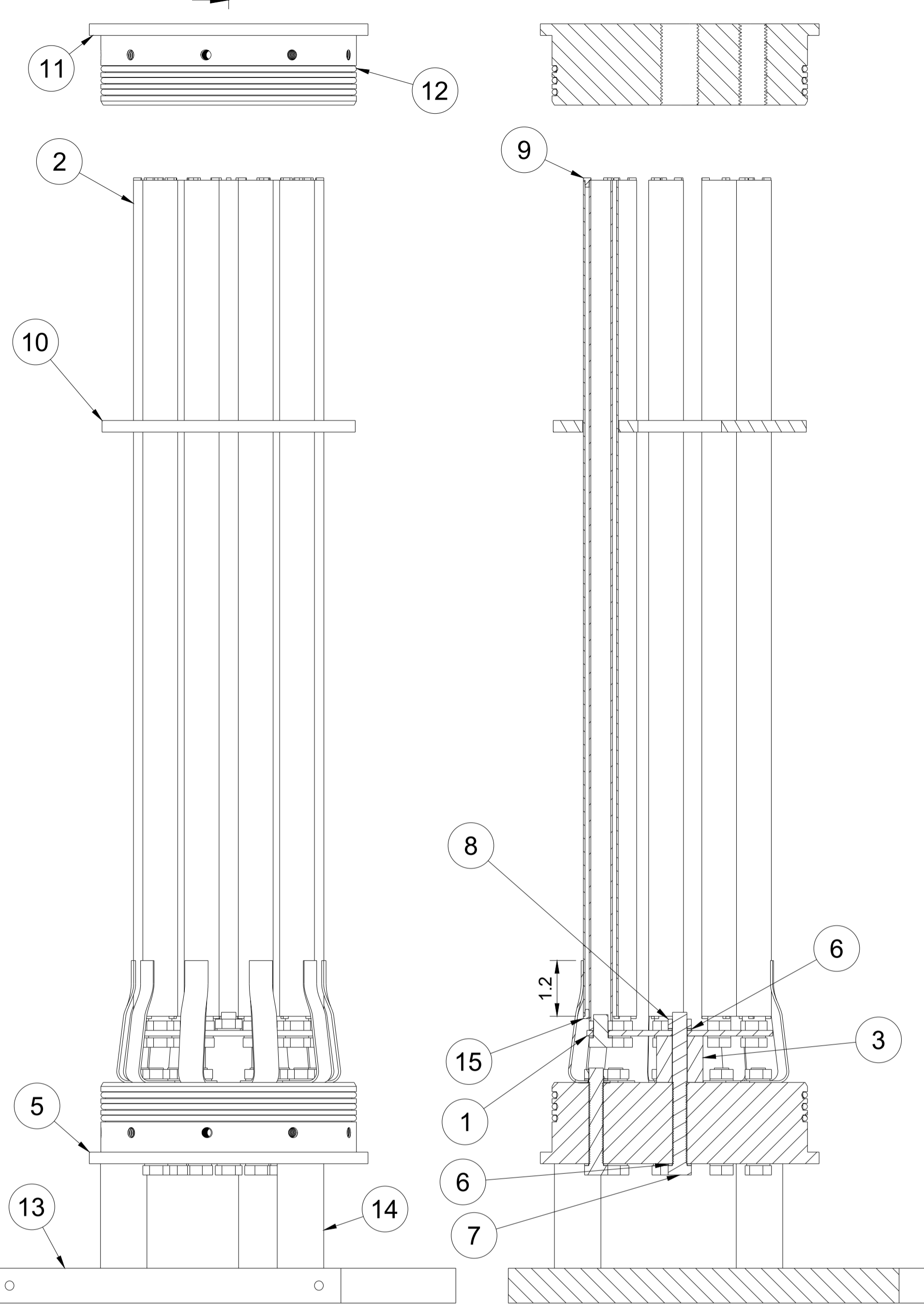
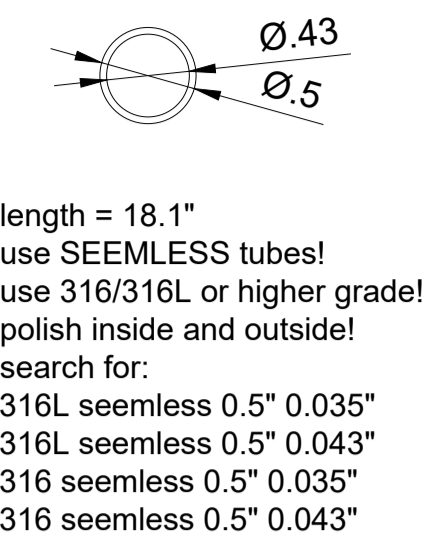


for more information visit:  
[open-source-energy.org](http://open-source-energy.org)

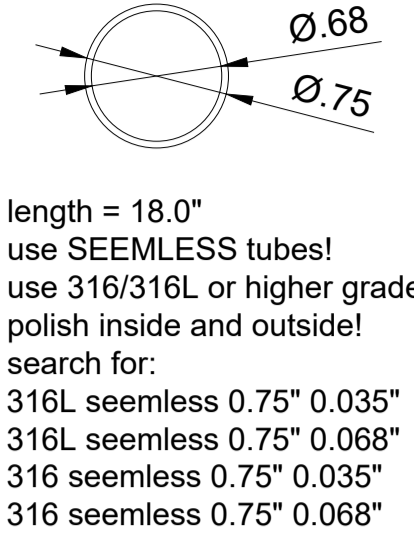
A-A (1:2)



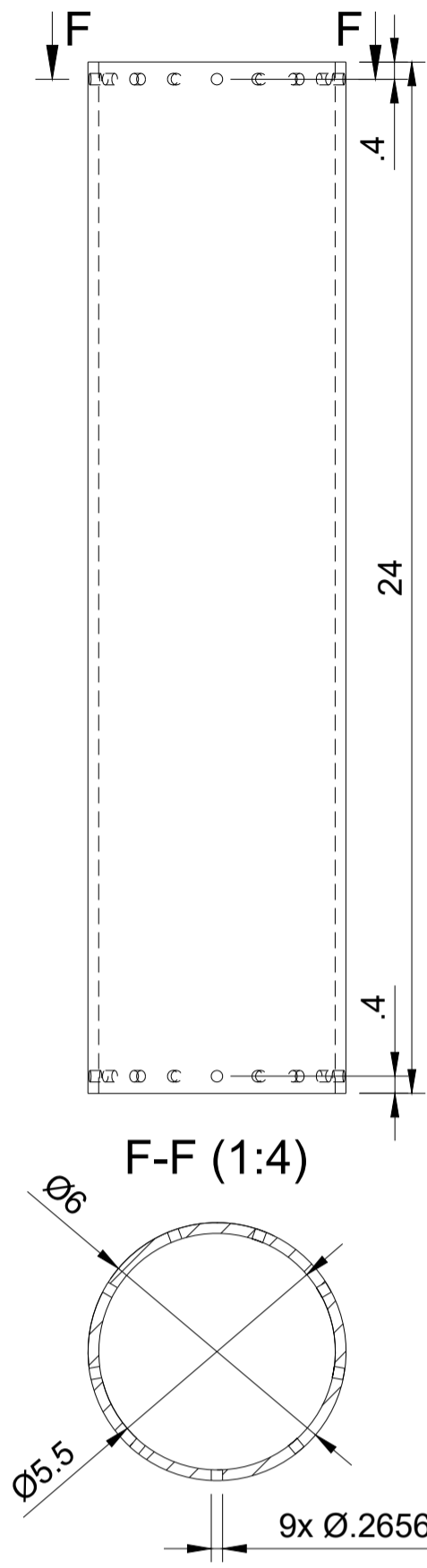
(2.) inner tube



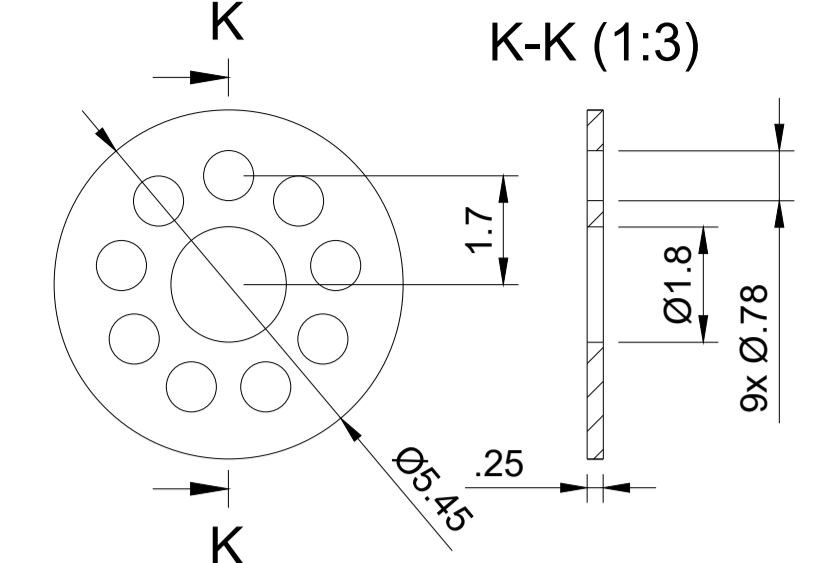
(3.) outer tube



(4) housing tube

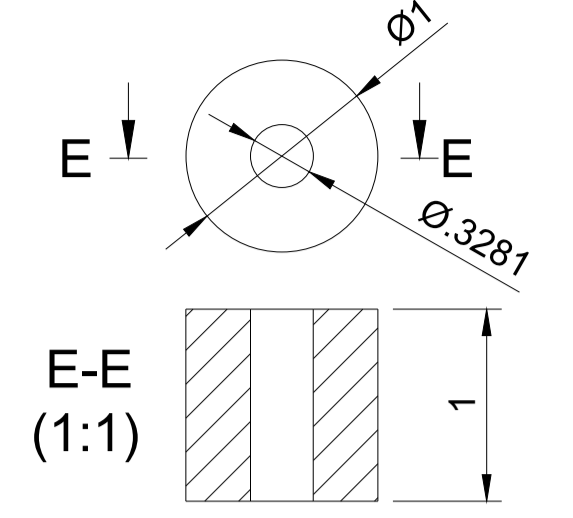


(10) center bracket



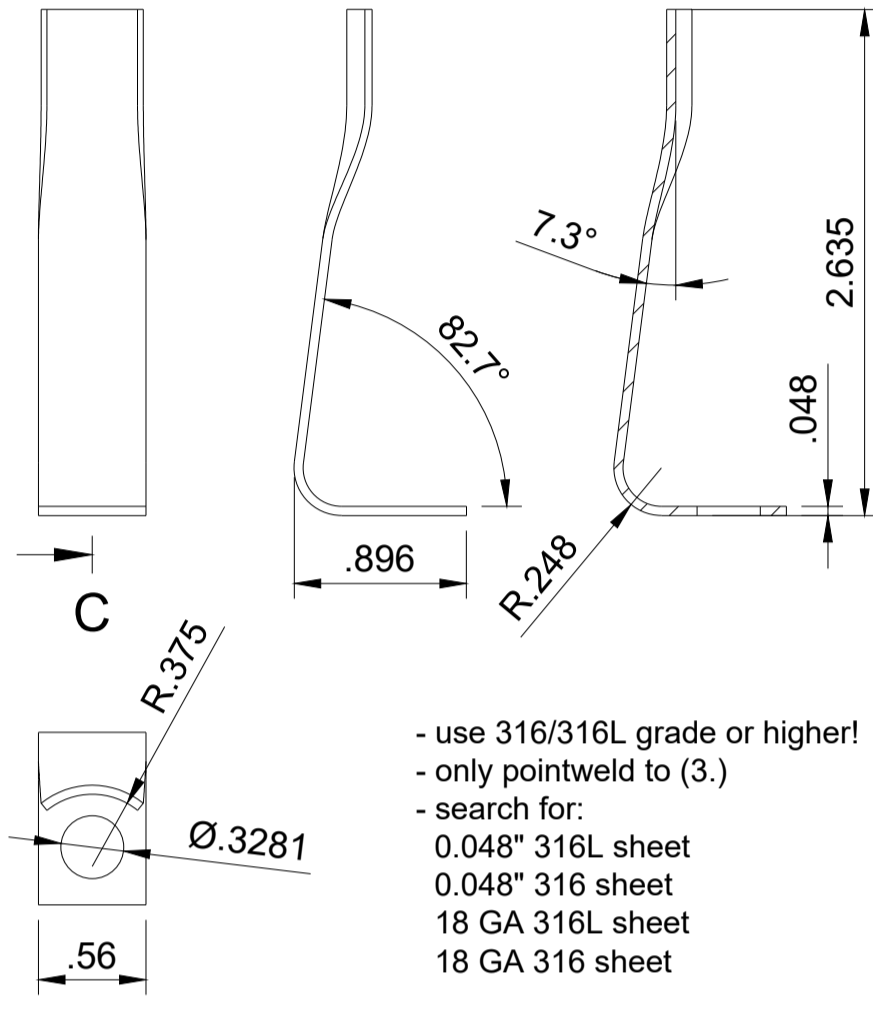
- cut from sheet and lathe  
- use acrylic or similar plastic with good lathing properties  
- search for:  
1/4" acrylic sheet

(3) lower center spacer

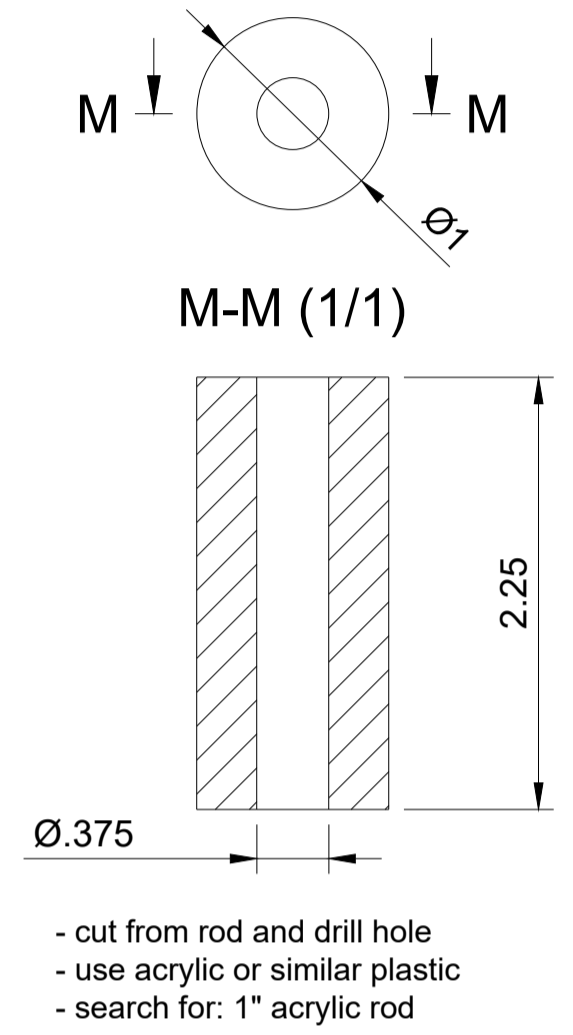


- cut from rod and drill hole  
- use acrylic or similar plastic  
- search for: 1" acrylic rod

(6.) bracket C-C (1:1)

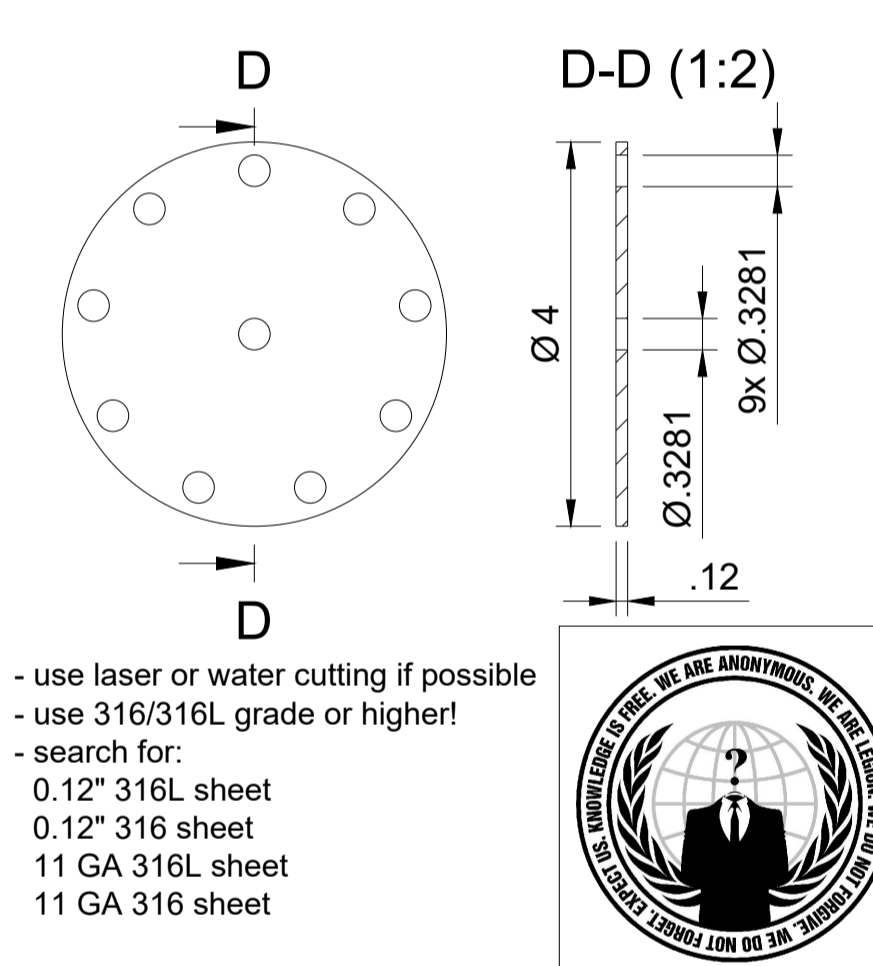


(14) base spacer



- cut from rod and drill hole  
- use acrylic or similar plastic  
- search for: 1" acrylic rod

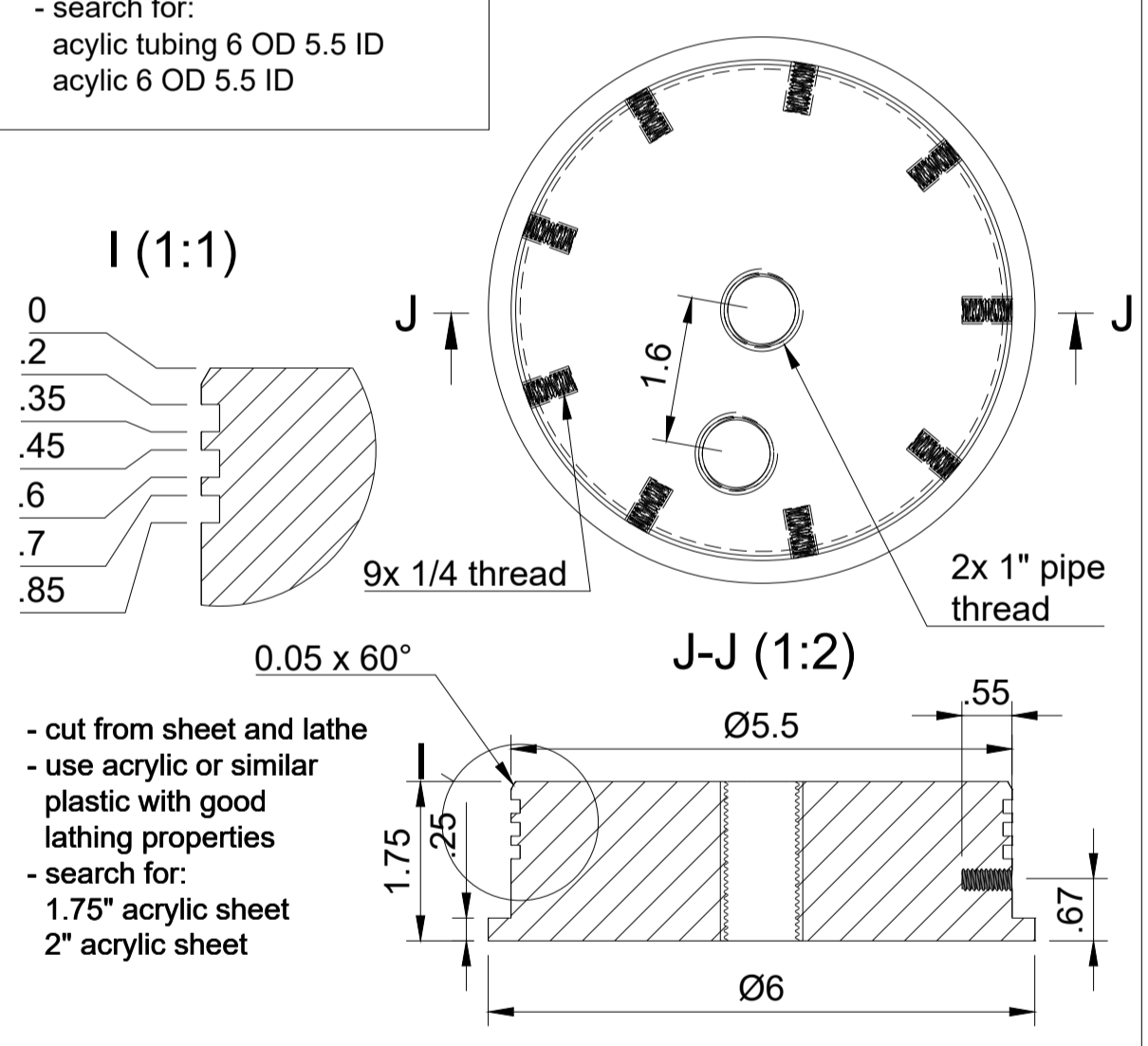
(1) lower plate



- use laser or water cutting if possible  
- use 316/316L grade or higher!  
- search for:  
0.12" 316L sheet  
0.12" 316 sheet  
11 GA 316L sheet  
11 GA 316 sheet



(11) upper cap



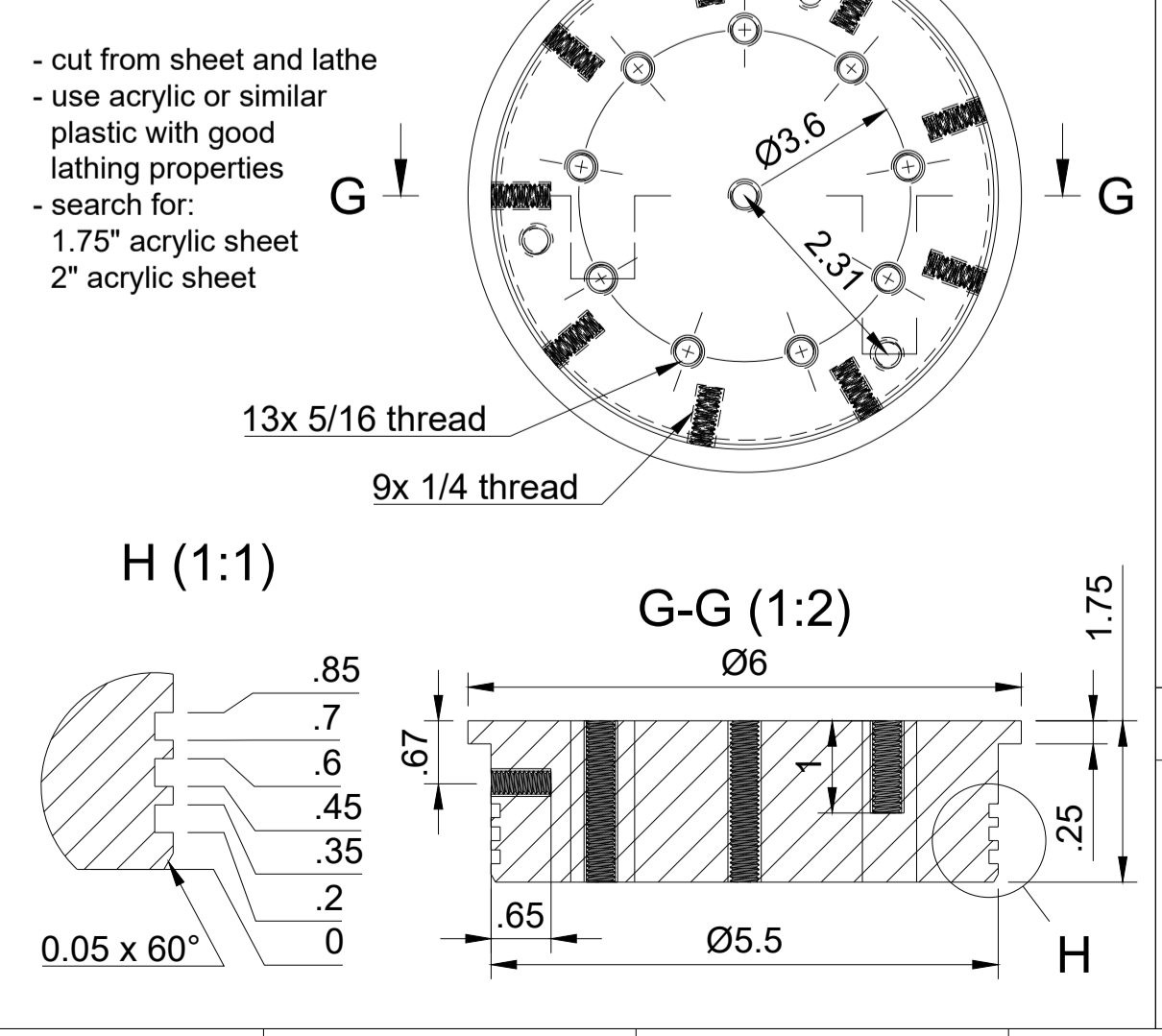
- cut from sheet and lathe  
- use acrylic or similar plastic with good lathing properties  
- search for:  
1.75" acrylic sheet  
2" acrylic sheet

for more information visit:  
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(13) base

- cut from sheet  
- use acrylic or similar plastic  
- search for: 3/4" acrylic sheet

(5) lower cap



- cut from sheet and lathe  
- use acrylic or similar plastic with good lathing properties  
- search for:  
1.75" acrylic sheet  
2" acrylic sheet

(n)	Anz.	Bauteilnummer	Beschreibung	Material
1	1	Lower plate	0.12" sheetmetal	Edelstahl 316L
2	9	Single cell assembly		Edelstahl 316L
3	1	Lower center spacer	ABS-Kunststoff	
4	1	Housing tube	6.0" x 5.5" x 24"	Acryl, farblos
5	1	Lower cap		Acryl, farblos
6	2	5/16" washer		Edelstahl 316L
7	4	5/16" screw III	L = 3.3"	Edelstahl 316L
8	1	5/16" nut		Edelstahl 316L
9	27	Upper tube spacer		ABS-Kunststoff
10	1	Center bracket		Acryl, farblos
11	1	Upper cap		Acryl, farblos
12	6	O ring	2.75" x 2.625"	Gummi
13	1	Base		Acryl, farblos
14	3	Base spacer		ABS-Kunststoff
15	27	Lower tube spacer		ABS-Kunststoff

(n.)	componens of 1x (2)	Teiliste	Material
1	2	5/16" nut	Edelstahl 316L
2	1	Inner tube	1/4" x 0.035" x 18.1"
3	1	Outer tube	3/4" x 0.035" x 18"
4	3	5/16" washer	Edelstahl 316L
5	1	5/16" screw I	L = 1/2"
6	1	Bracket	0.036" sheetmetal
7	1	5/16" screw II	L = 2.1"

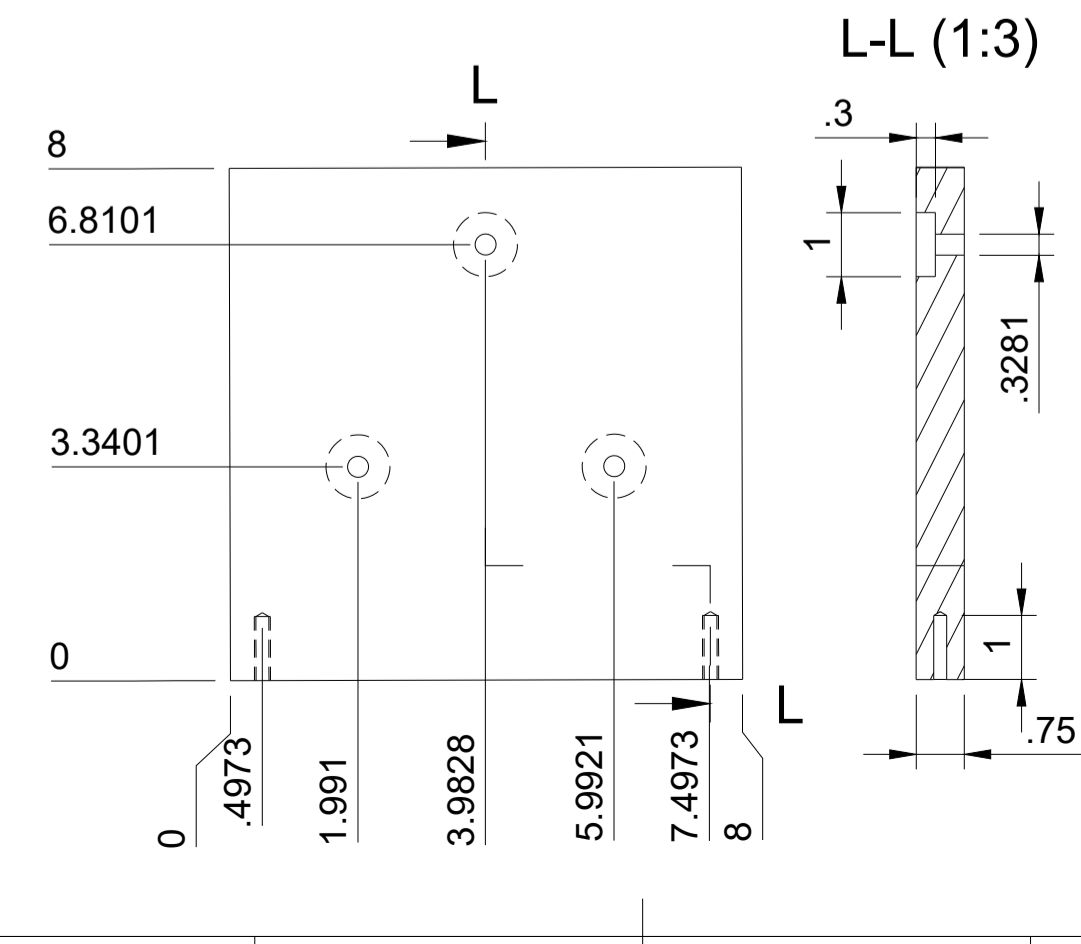
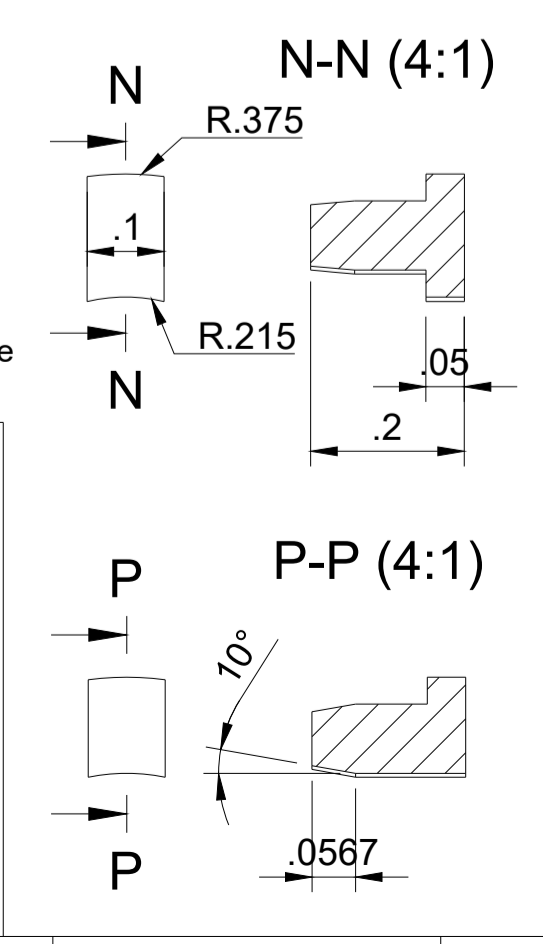
How to build:  
- polish in- & outside of tubes (2.) & (3.)  
- pointweld bracket (6.) to (3.) = (3./6.)  
- pointweld (1.) to (2.) = (1./2.)  
- be VERY careful to minimize weld warping due to too high temperatures!  
- (2.) & (3.) need to be straight after weld  
- use (6.), (7.) & (8.) to mount (1.) & (3.) to (5.)  
--> add your cable with lug here!  
- use (1.), (4.) & (7.) to mount (3./6.) to (5.)  
--> add your cable's with lug's here!  
- lower (1./2.) into (3./6.), DO NOT scratch!  
- use (4.) & (5.) to mount (1./2.) to (1)

- use (9.) & (15.) to center (1./2.) in (3./6.) as exact as possible, glue in position  
- position (10), glue in place  
- use (7.) & (14.) to mount (13)  
- position (12) on (5.) & (11), use acid free & non aggressive lubricant on (12)!  
- gentle push (4) into (5)  
- gentle push (11) into (4)  
- use 18x 1/4" setscrews to secure (4) in place  
Rebuild from open available knowledge and pictures without original dimensions!

An attempt is made to build up a strong electric field, which only works well on smooth and, if possible, round surfaces. Therefore, carefully round off all corners and edges of components that are under voltage and pay attention to smooth / polished surfaces to minimize field leakages!  
If necessary, additionally try applying an epoxy resin with high electrical insulation to all surfaces except the inside of the outer tube and the outside of the inner tube to increase efficiency.

(9) & (15) tube spacer's

- 3D print or  
- cut from plastic sheet  
- use to center (2.) into (3.) as precise as possible



Dept.	Technical reference	Created by	Approved by
		Optimus	07.07.2020
revision 1		Document type	Document status
			unchecked
for more information or contact/questions visit:	Title		DWG No.
<a href="http://open-source-energy.org">open-source-energy.org</a>	cell assembly		001
	Rev.	Date of issue	Sheet
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