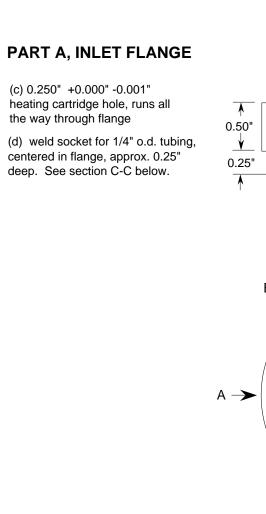
Dynamic Diffusion Reactor - designed by Richard K. Herz, October 1991

Materials: type 316 stainless-steel, except where noted otherwise

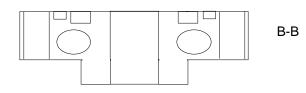
Drawing Scale: 1" = 1" on all drawings



(d) 0.25" SIDE VIEWS (c) (c) 0.185" 0.185" (both sides, perpendicular to A-A) **→** 0.430" 0.430" **<** 0.505" 1.188" С **TOP VIEW** 4 ea., F drill bit holes (0.257" diam.) with centers evenly spaced on 1.018" radius circle (note relation to heating cartridge holes - (c) in side view, top of page). These 4 holes are bolt holes to clamp PART A to PART B together (see final assembly drwg), with С PART A, section C-C aligned **←** 0.712"→ with PART B, section A-A. Part C should fit tightly in this hole 0.450" 0.250" (b) A-A (a)

(a) 0.200" wide x 0.120" deep groove.

(b) O-ring groove for Parker 2-127, face seal gland, external pressure (internal vacuum), see details attached.

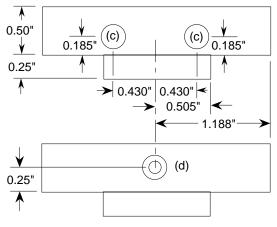


#31 drill (0.120") at 30° from vertical to intersect 1/8" hole from circumference - must NOT intersect o-ring groove weld socket for 1/4" o.d. tubing, approx. 0.25" deep; 1/8" drill in C-C center approx. 0.565" deep from outer circumference.

PART B, OUTLET FLANGE

(c) 0.250" +0.000" -0.001" heating cartridge hole, runs all the way through flange

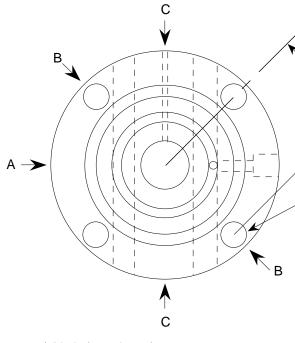
(d) weld socket for 0.25" tube, centered in flange, approx. 0.25" deep, socket on one side only. See section A-A below.



SIDE VIEWS (both sides, perpendicular to A-A)

SIDE VIEW (perpendicular to C-C, socket on one side only

7.070,



4 ea., F drill bit holes (0.257" diam.) with centers evenly spaced on 1.018" radius circle (note relation to heating cartridge holes - (c) in side view, top of page). These 4 holes are bolt holes to clamp PART A to PART B together (see final assembly drwg), with PART A, section C-C aligned with PART B, section A-A.

TOP VIEW

5/64" drill at 30° from vertical to intersect 1/8" hole from circumference - must NOT intersect o-ring groove or heating cartridge hole

Part C should fit tightly in this hole

0.450"

0.250"

(b)

(a)

П

tubing, approx. 0.25" deep, one side only; 1/8" drill in center to penetrate approx. 0.565" but no more than 0.570" from outer circumference - must NOT intersect heating cartridge

weld socket for 1/4" o.d.

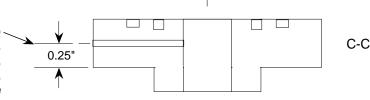
В-В

hole.

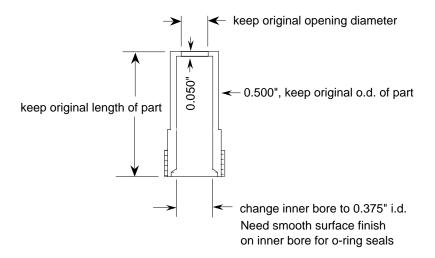
(a) 0.10" wide x 0.10" deep groove.

(b) O-ring groove for Parker 2-127, face seal gland, external pressure (internal vacuum), see details attached.

close-fit hole (#52 drill, 0.0635")
for insertion of 0.062" o.d.
sheathed thermocouple,
centered in thickness of flange,
drilled through to center hole



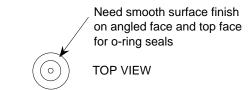
PART C, MODIFIED ULTRA-TORR ADAPTER (modify 2 Cajon Ultra-Torr adapters, to be supplied)

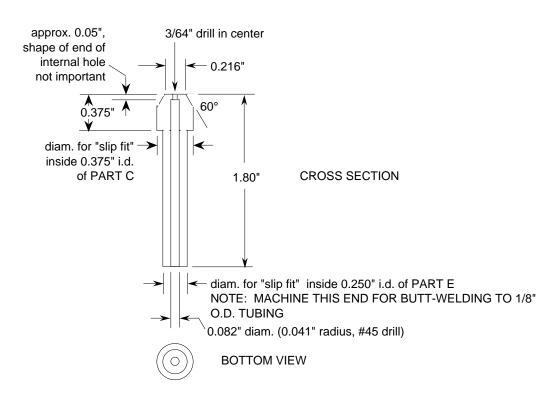




Cap, supplied, no modification required

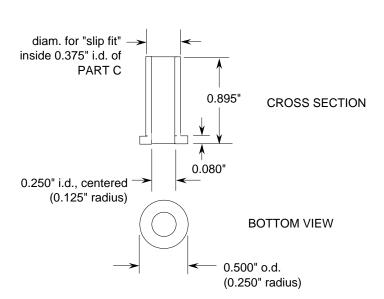
PART D, SNORKEL (quantity = 2)



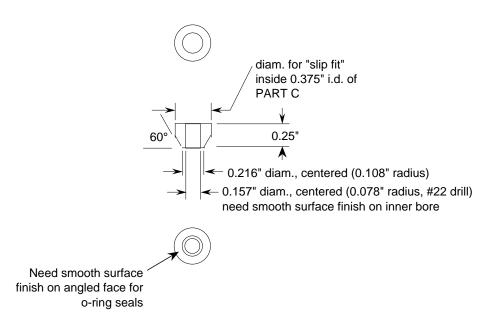


PART E, PUSHER (quantity = 2)



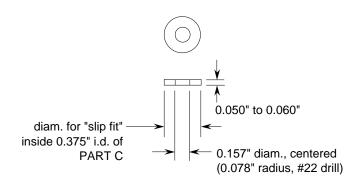


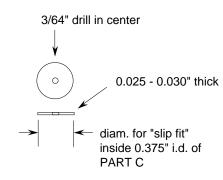
PART F, SAMPLE HOLDER (quantity = 4)



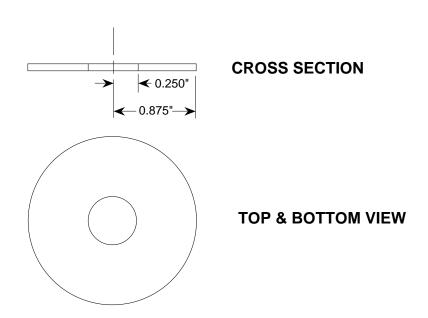
PART G, SPACER (quantity = 4)

PART H, WASHER (quantity = 4)

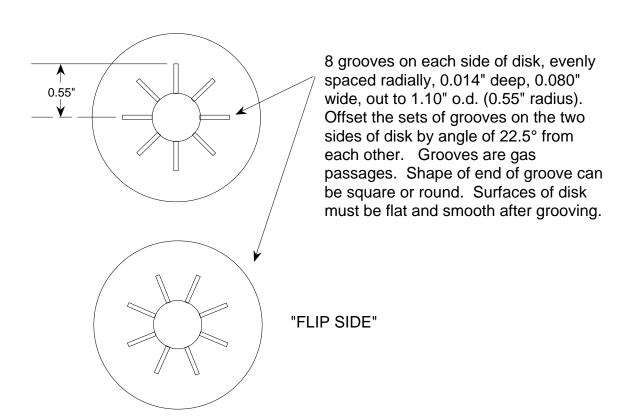




PART I, SEPARATOR (modify copper disks supplied, quantity = 2)

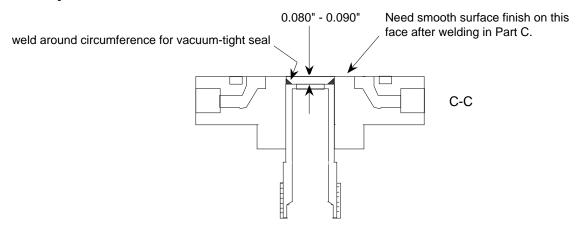


PART J, GROOVED SEPARATOR (modify 1 of PART I)

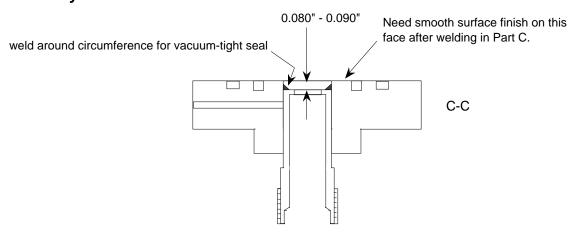


(some parts not to exact scale on this assembly drwg.)

Assembly of PART A and PART C



Assembly of PART B and PART C



FINAL ASSEMBLY DIAGRAM

(some parts not to exact scale on this drwg.)

