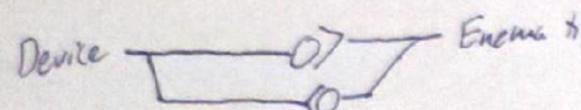
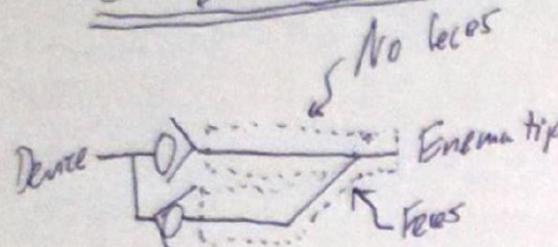


Witness: Katty Murray  
 25-Feb-15

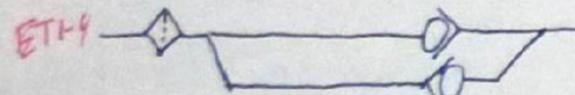
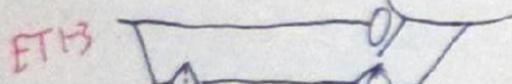
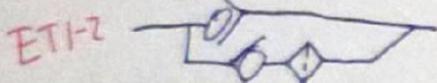
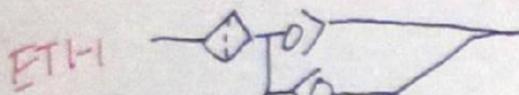
24-Feb-15  
 Michael Sobreira  
 WBR

# Fecal Management

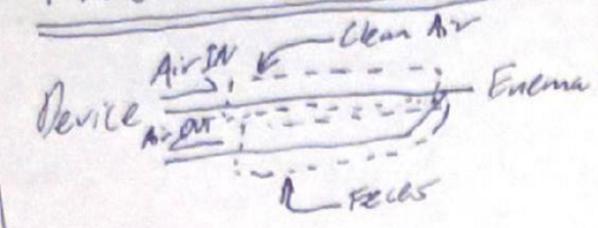
## CHECK VALVE:



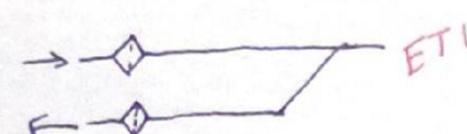
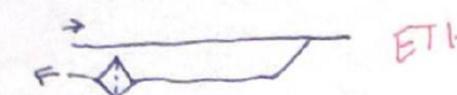
## Adding a filter:



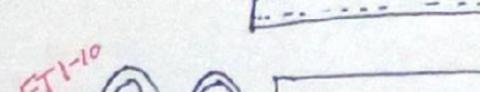
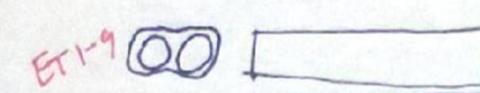
## TWO FLOW PATHS:



## Adding a filter:



## Tubing Options:



## Sizing?:

- Equal
- Bigger for Feces
- Bigger for Air

## Connectors:

### Two Flow Paths:

connector 1  
connector 2

2 connector → Basic Luer Lock

connector arm  
multi filter  
multipart connector

concentric Luer Lock: ETI-II

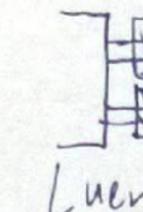
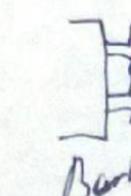


Custom Side by Side:



ETI ENGINEERING  
PROBLEM

Side by Side CONNECTOR



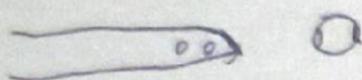
ETI

Michael  
25-Feb-15  
Witness: Kathryn  
25-Feb-2015  
Sobrepase  
Kean  
Witness: Kathryn  
25-Feb-2015

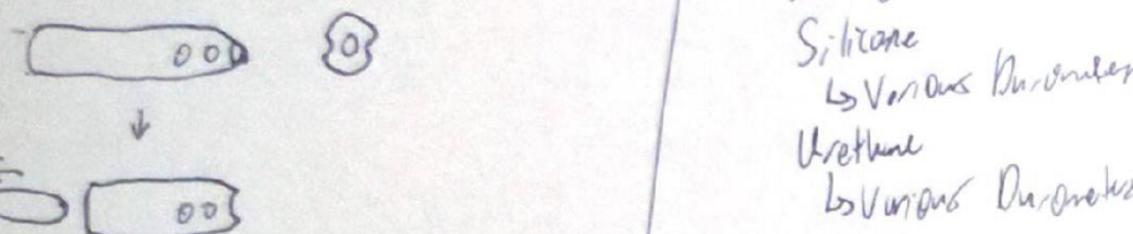
# COMFORT

## HOLE AT END

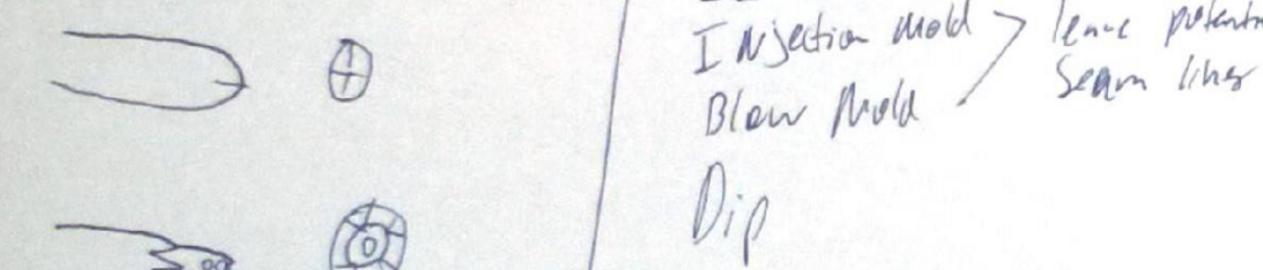
No Hole: ET2-1



Removable Plug: ET2-2



Insertion Sheath: ET2-3



## Material Options:

PPE  
Flexible  
Easy to get

Poly Pro

Poly Carb

Acetyl

Silicone  
↳ Various Durations

Urethane  
↳ Various Durations

## Manufacture

Injection mold > less potential  
Blow mold > seam like

Dip

Witness: Kathryn Murray  
25-Feb-15

25-Feb-15  
Michael Sobeck  
Kathy Murray

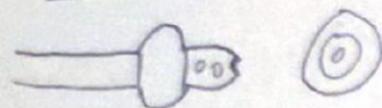
LETZ

# SEALING

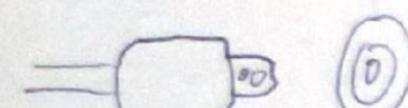
## INTERNAL

Balloons:

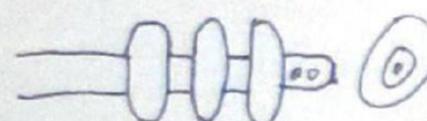
Circular: ET3-1



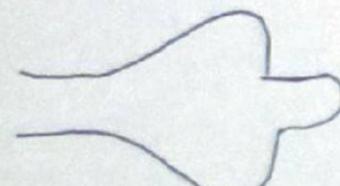
Hot dog: ET3-2



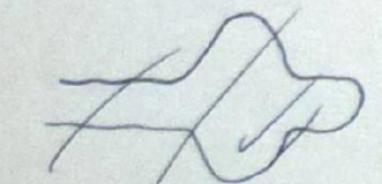
Successive Rings: ET3-3



Tear Drop ( $\times^2$ ): ET3-4



Normal (N): ET3-5

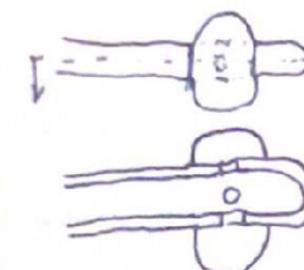


## INFLATION

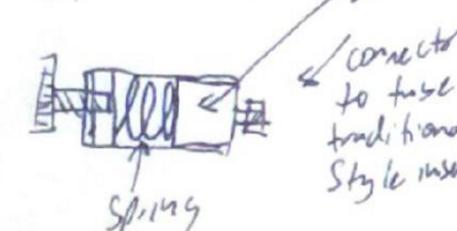
Traditional Valve: ET3-6



INTERNAL P: ET3-7

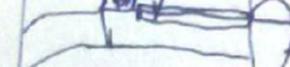


External simple P: ET3-8  
Sealed Chamber



Integrated P: ET3-9

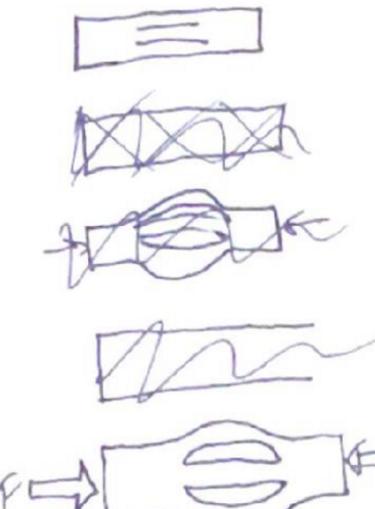
Similar to  
but directly  
integrated  
and disposable



## INTERNAL

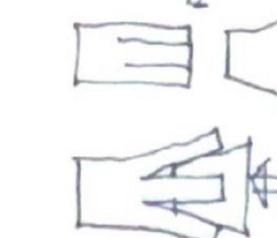
Mechanical Expansion:

compressing strips: ET3-10



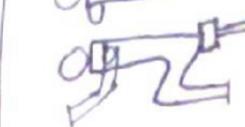
Substructure under  
thin elastomer

Wedge: ET3-11



## EXTERNAL

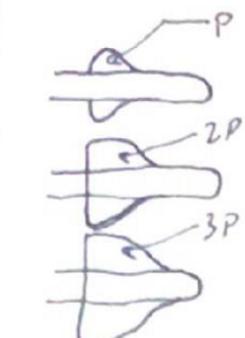
Wedge: ET3-12  
Highly Deformable Material



CONE: ET3-13



Creeping seal: ET3-14



## ORGANIC CAULK

- Home made Play dough
- Home made Silly Putty
- Very thick lotion

[Witness Kathryn Murray  
25-Feb-15]

Michael Sobrepun  
25-Feb-15

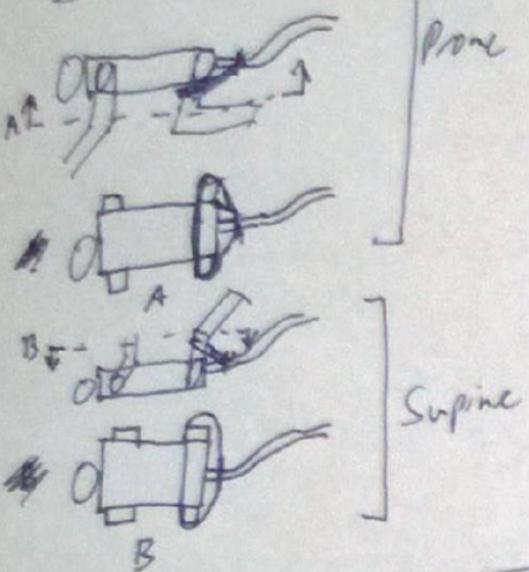
ET3

# RETENTION

ET 4

STRAP:

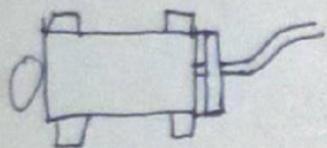
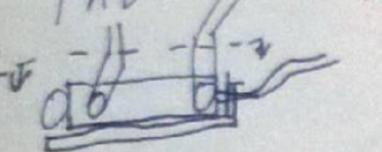
ET 4-1



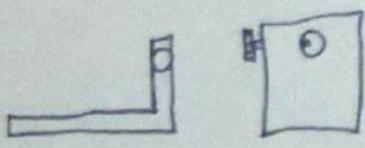
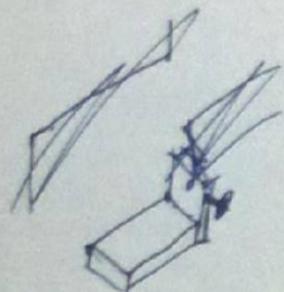
INTERNAL:  
SE ET 3-1 through ET 3-11

PAD:

ET 4-2



C



Witness: Kathryn May  
25-Feb-15

Michael Sobczak  
25-Feb-15