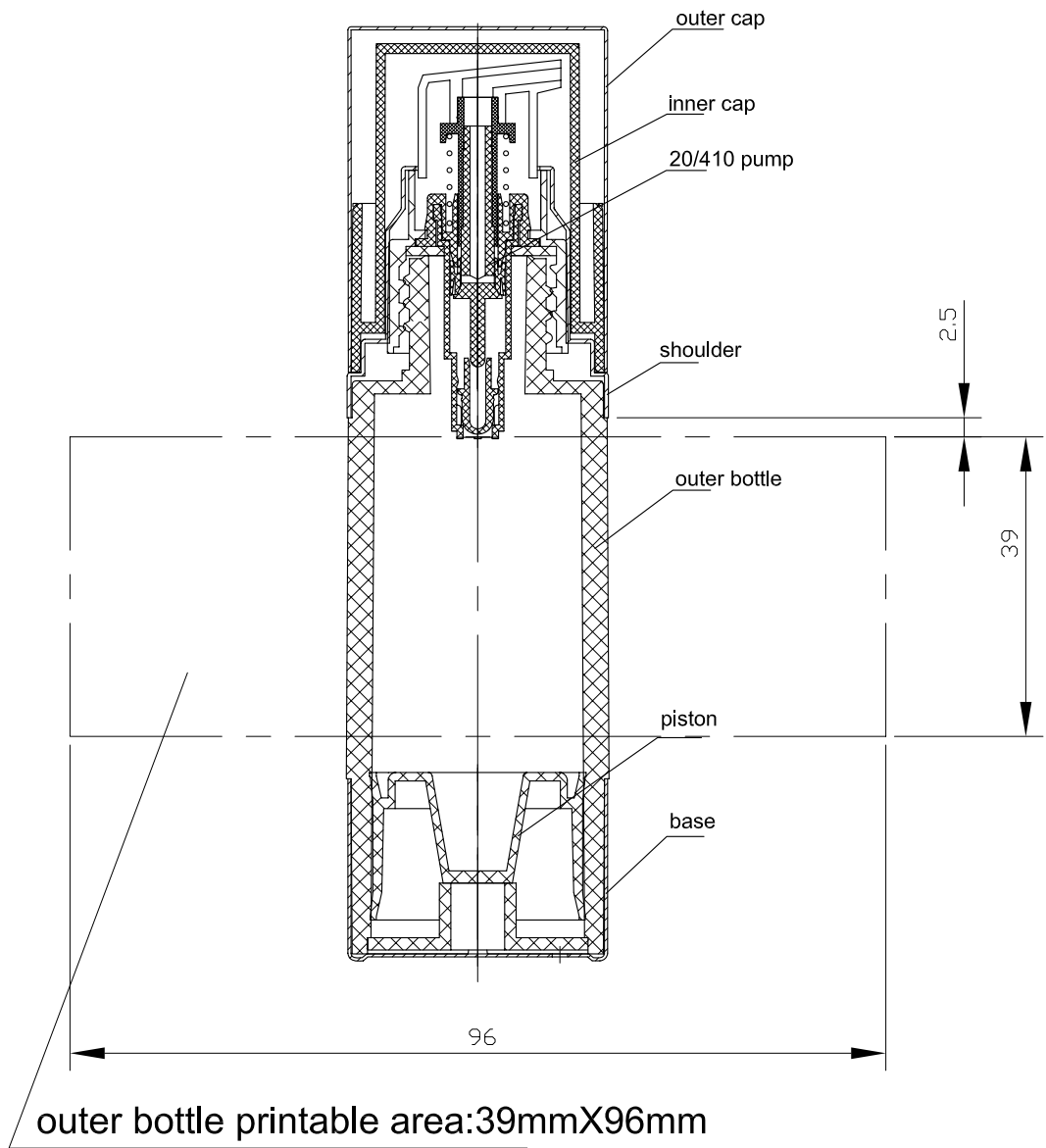




Mark	Modifications	Modifier	Date



Element packaging

$0 \geq 10 - \pm 0.15$
 $10 \geq 40 - \pm 0.20$
 $40 \geq 90 - \pm 0.3$
 $90 \geq 200 - \pm 0.5$
 Angular-- $\pm 0.5^\circ$

MAT' L:

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

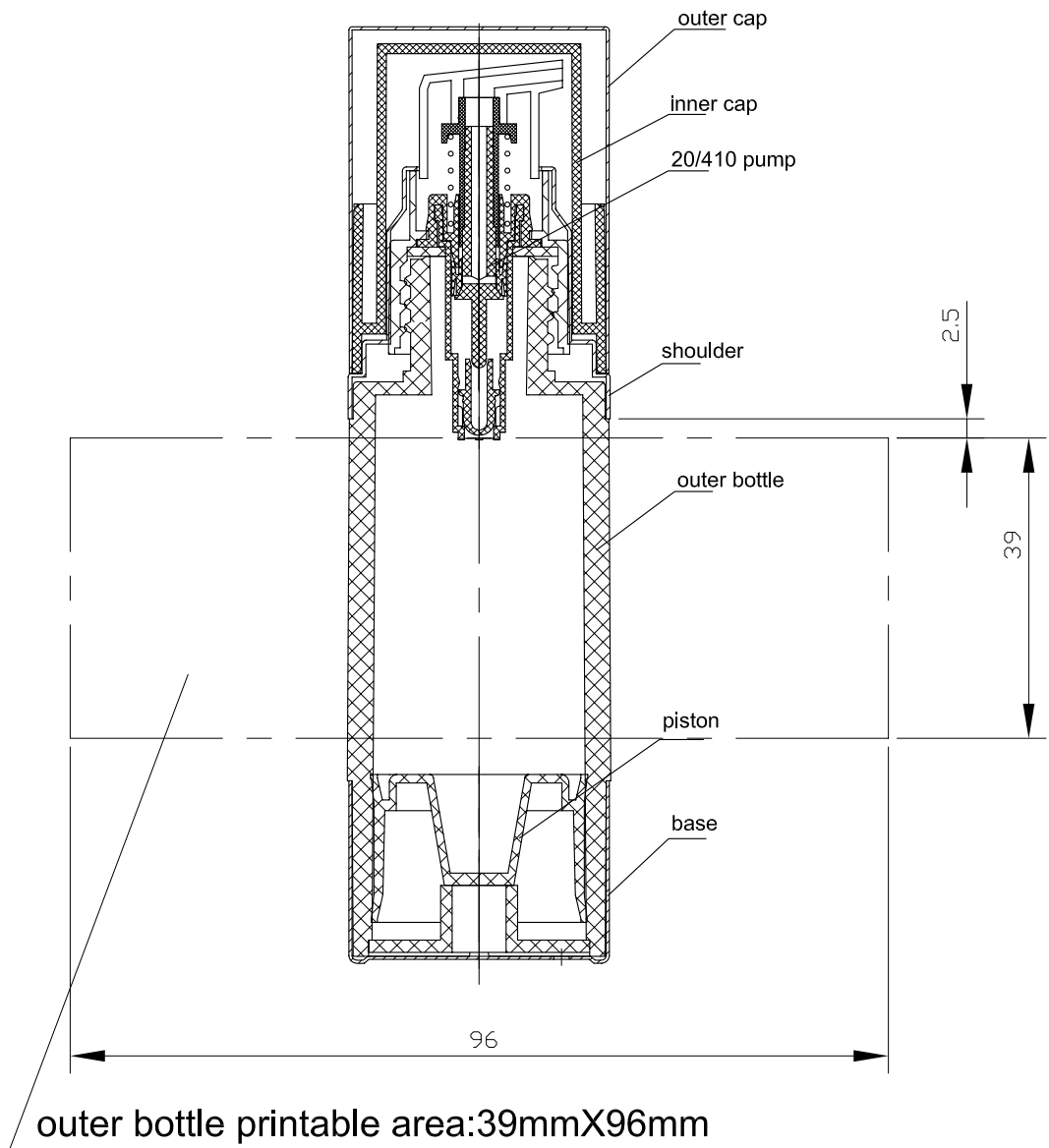
30ml Vacuum bottle
-Assembly

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 - \pm 0.15$
 $10 \geq 40 - \pm 0.20$
 $40 \geq 90 - \pm 0.3$
 $90 \geq 200 - \pm 0.5$
 Angular-- $\pm 0.5^\circ$

MAT' L:

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

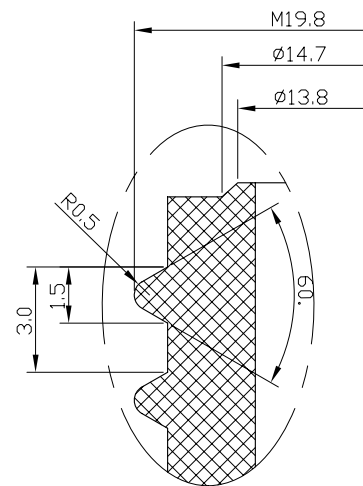
30ml Vacuum bottle
-Assembly

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

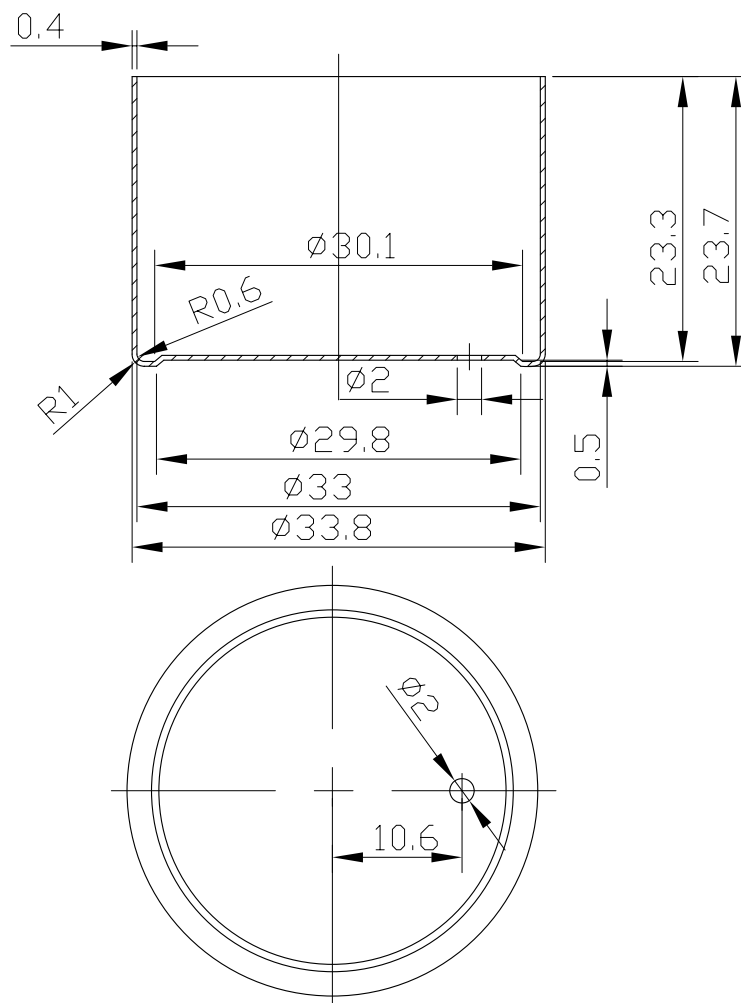
APPROVED BY:



APPROVED BY:



APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L: **AL**

SCALE:

PROG:  

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

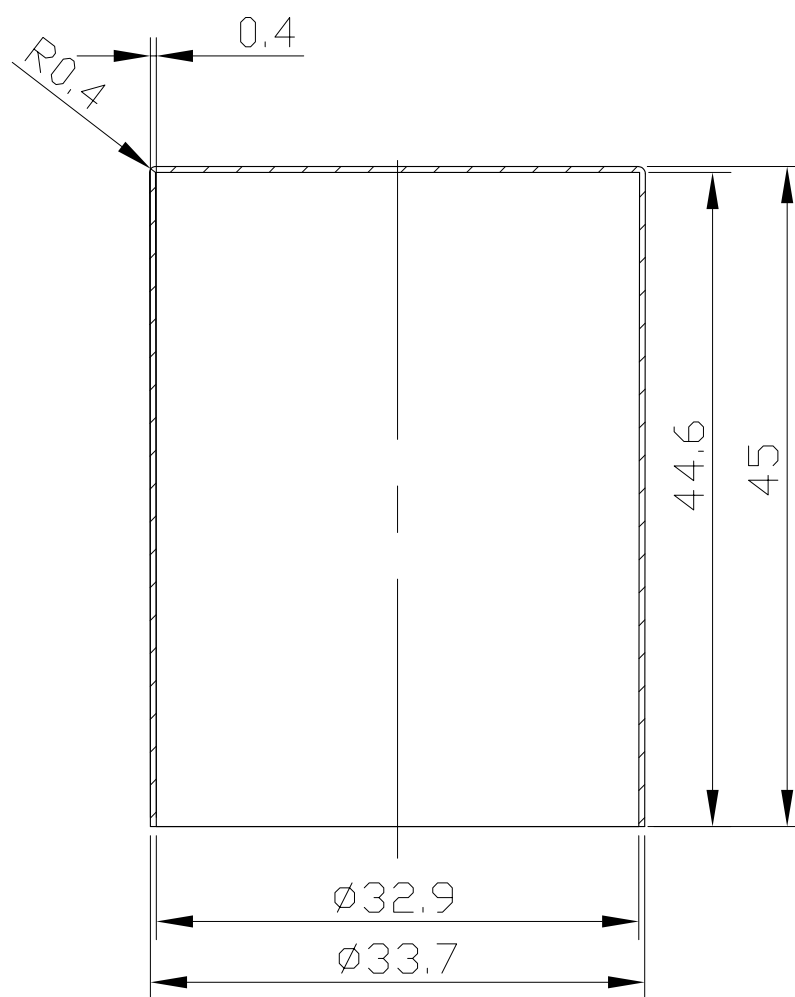
30ml Vacuum bottle
-outer base

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



0≥10--± 0.15
10≥40--± 0.20
40≥90--± 0.3
90≥200--± 0.5
Angular--± 0.5°

MAT' L: **AL**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

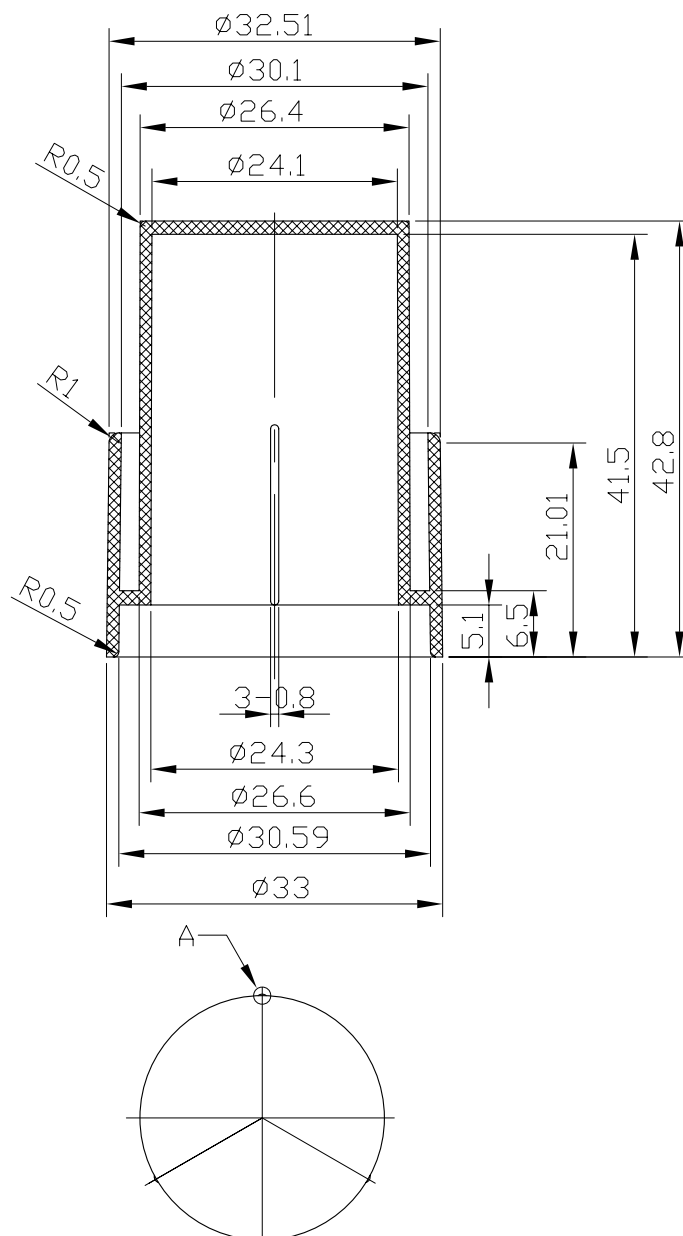
30ml Vacuum bottle
-outer cap

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



0 $\geq$ 10-- $\pm$ 0.15
 10 $\geq$ 40-- $\pm$ 0.20
 40 $\geq$ 90-- $\pm$ 0.3
 90 $\geq$ 200-- $\pm$ 0.5
 Angular-- $\pm$ 0.5°

MAT' L: **PP**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

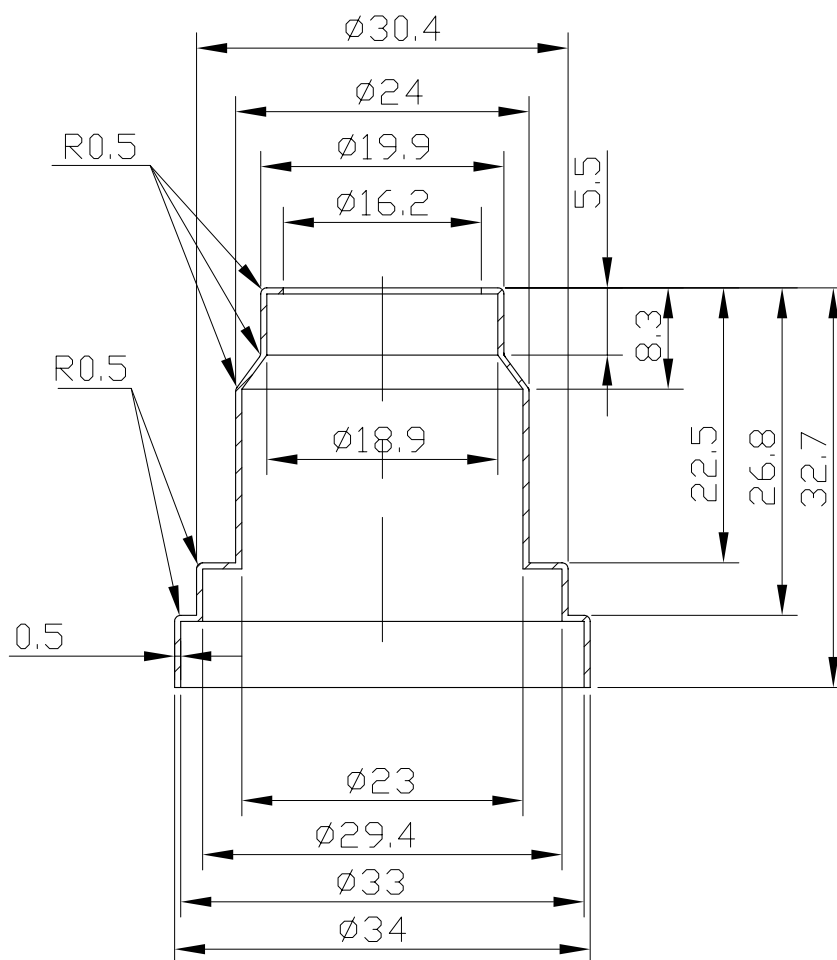
30ml Vacuum bottle
-inner cap

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L: **AL**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

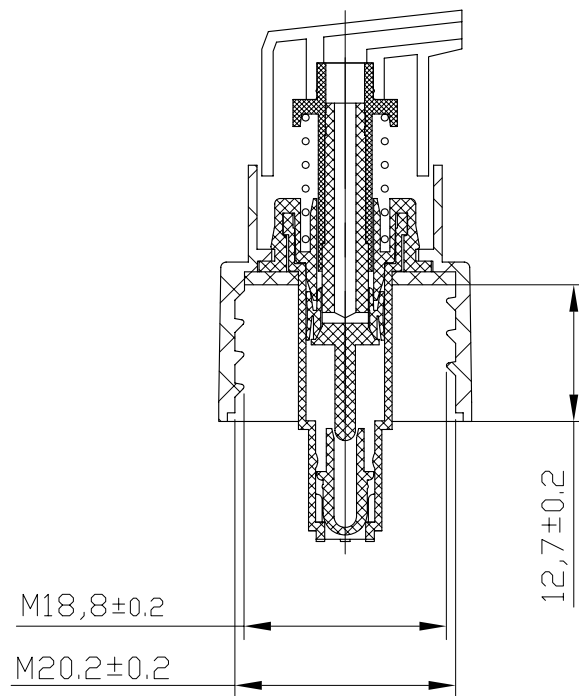
30ml Vacuum bottle
-shoulder

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date
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$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L:
 SCALE:
 PROG:



PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

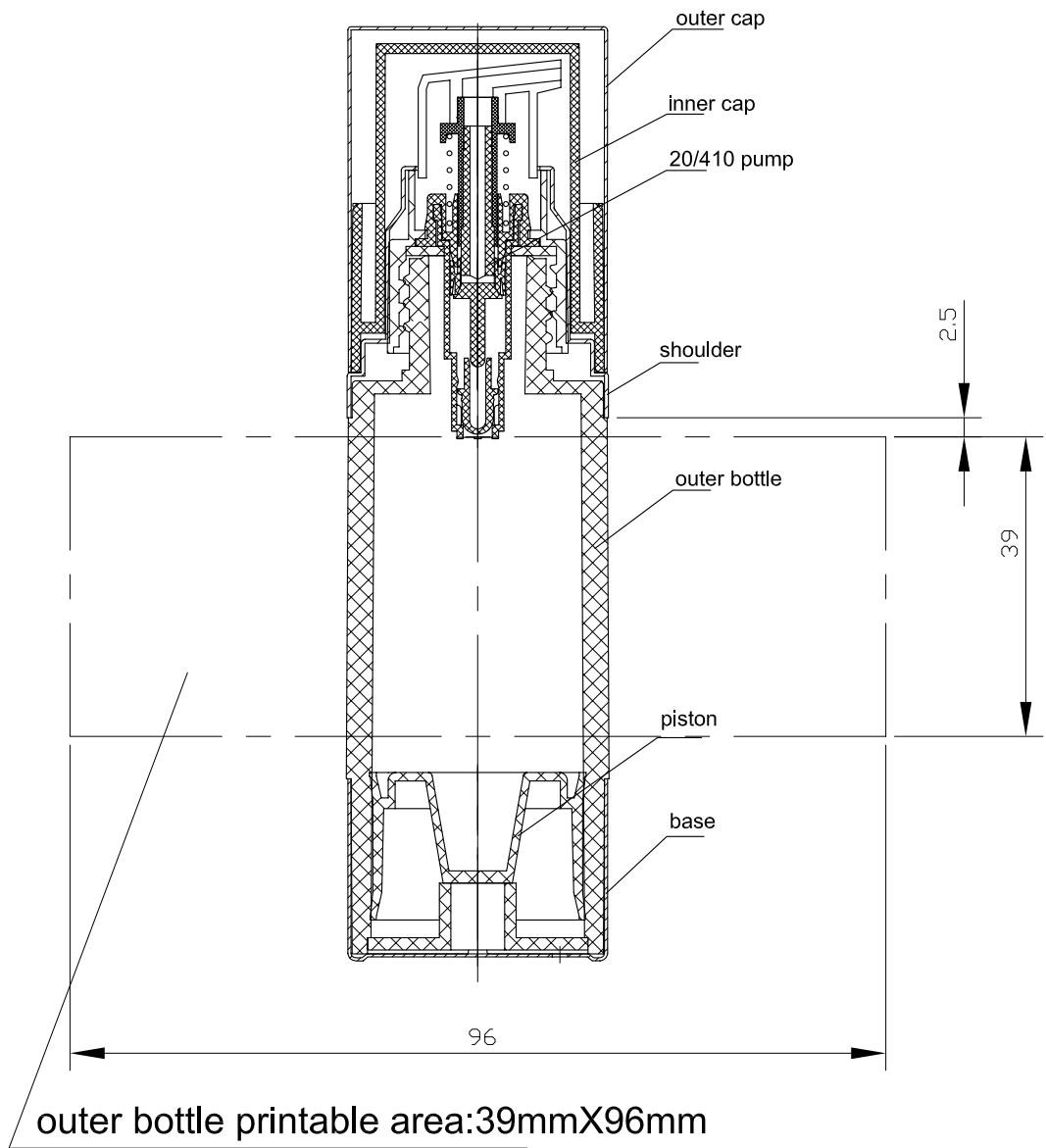
30ml Vacuum bottle
 -20/410 pump

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L:

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

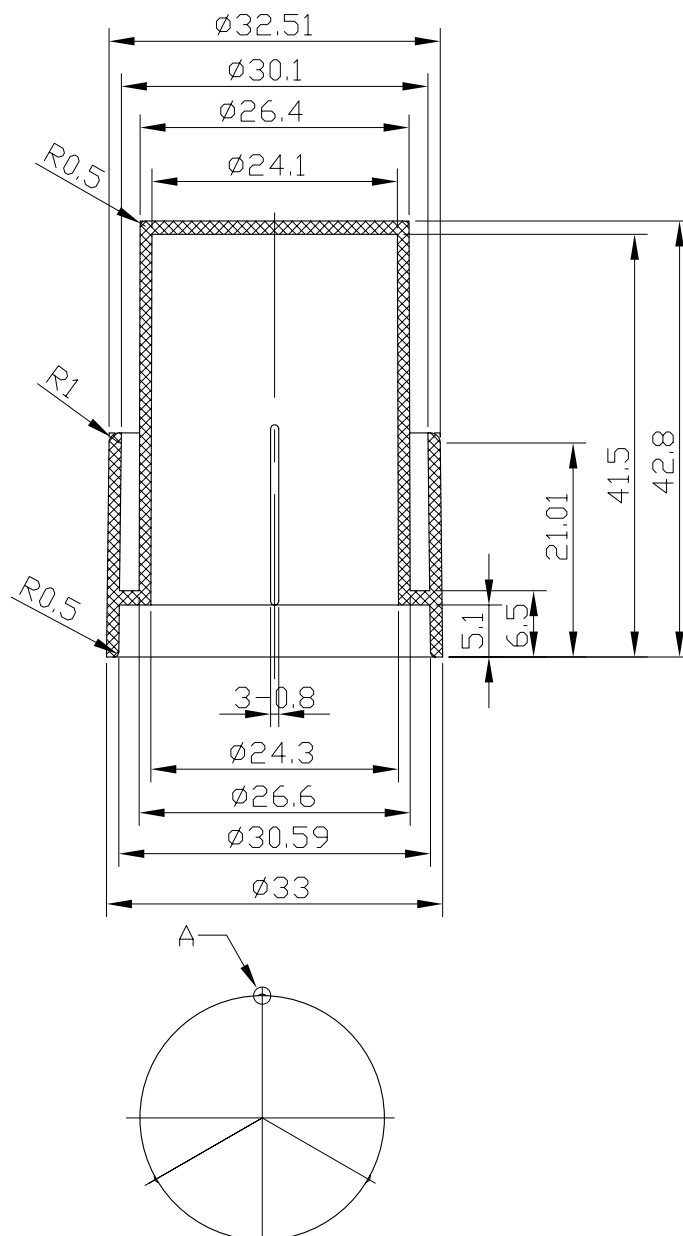
30ml Vacuum bottle
-Assembly

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



0 $\geq$ 10-- $\pm$ 0.15
 10 $\geq$ 40-- $\pm$ 0.20
 40 $\geq$ 90-- $\pm$ 0.3
 90 $\geq$ 200-- $\pm$ 0.5
 Angular-- $\pm$ 0.5°

MAT' L: **PP**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

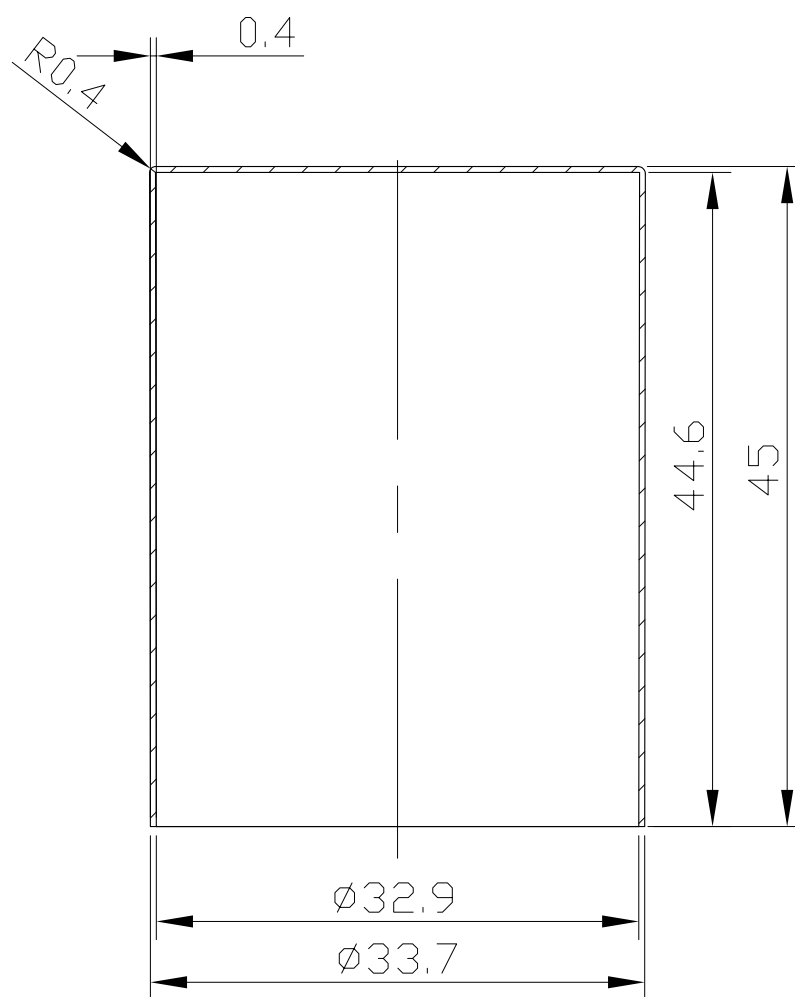
30ml Vacuum bottle
-inner cap

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L: **AL**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

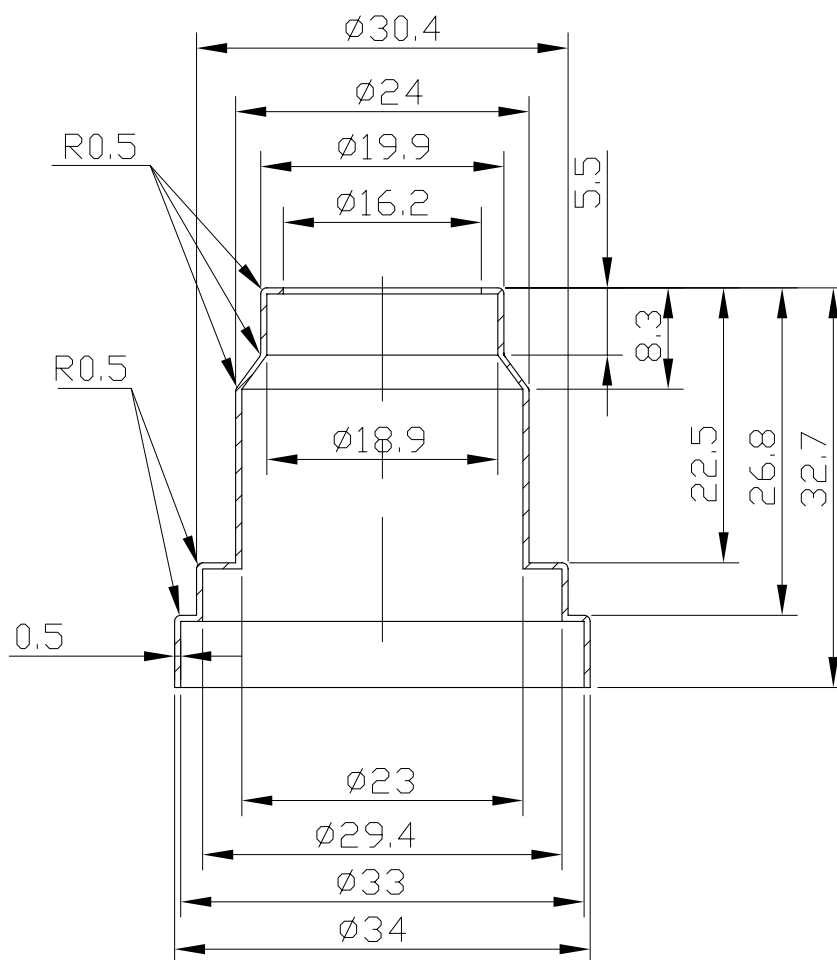
30ml Vacuum bottle
-outer cap

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L: **AL**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

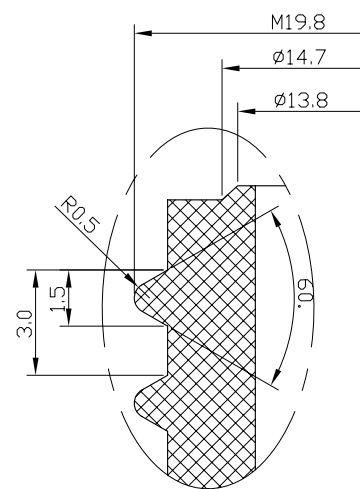
30ml Vacuum bottle
-shoulder

PA2020012-30ml

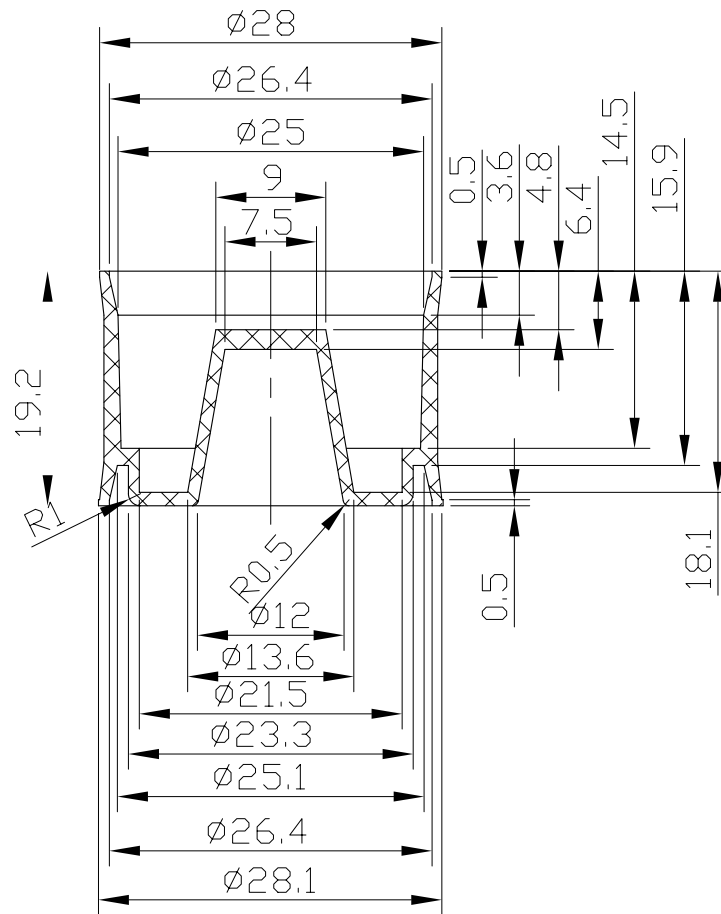
DESIGNER: Eric

CHECKED BY:

APPROVED BY:



APPROVED BY:



Mark	Modifications	Modifier	Date



0 $\geq$ 10-- $\pm$ 0.15
 10 $\geq$ 40-- $\pm$ 0.20
 40 $\geq$ 90-- $\pm$ 0.3
 90 $\geq$ 200-- $\pm$ 0.5
 Angular-- $\pm$ 0.5°

MAT' L: **PE**

SCALE:

PROG:  

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

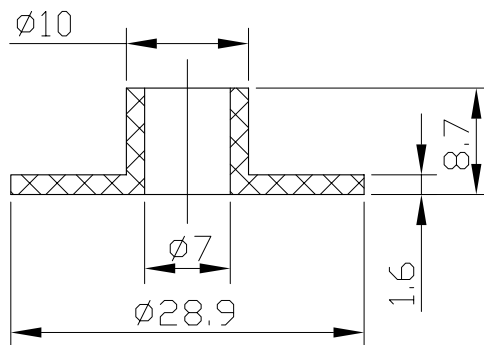
30ml Vacuum bottle
-piston

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L: **AL**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

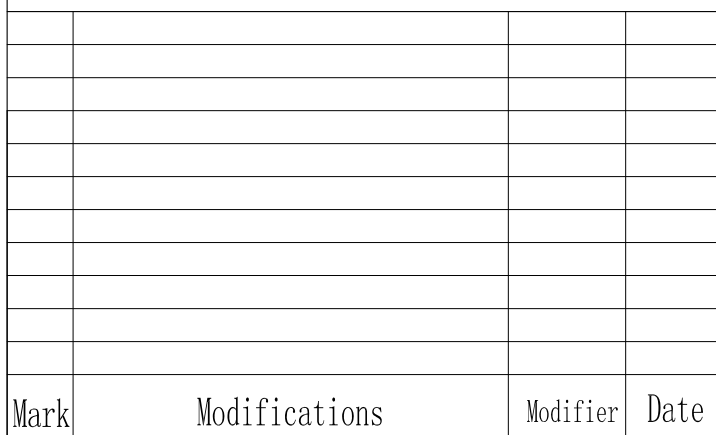
30ml Vacuum bottle
-inner **base**

PA2020012-30ml

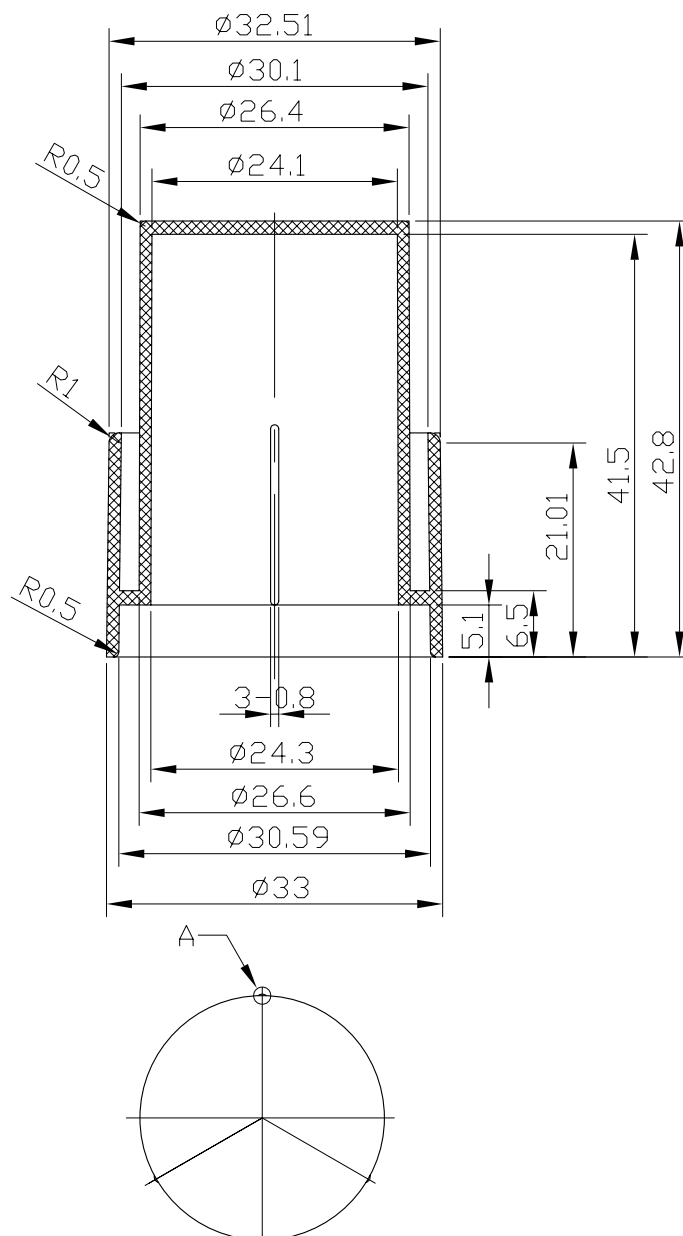
DESIGNER: **Eric**

CHECKED BY:

APPROVED BY:



APPROVED BY:



Mark	Modifications	Modifier	Date



0 $\geq$ 10-- $\pm$ 0.15
 10 $\geq$ 40-- $\pm$ 0.20
 40 $\geq$ 90-- $\pm$ 0.3
 90 $\geq$ 200-- $\pm$ 0.5
 Angular-- $\pm$ 0.5°

MAT' L: PP

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

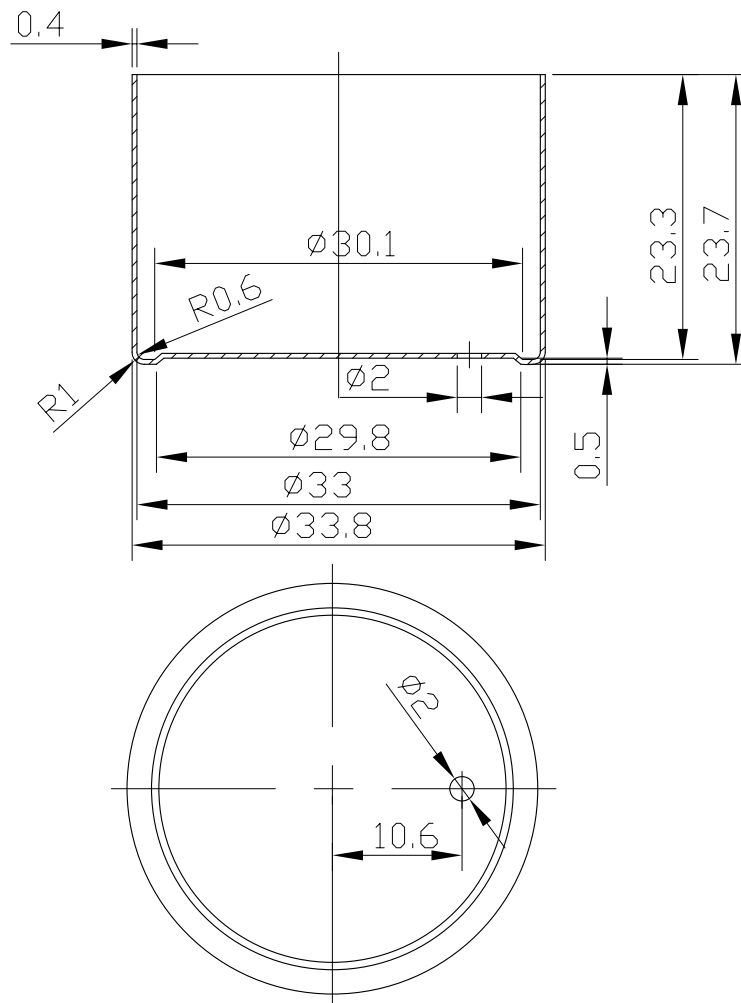
30ml Vacuum bottle
-inner cap

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L: **AL**

SCALE:

PROG:  

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

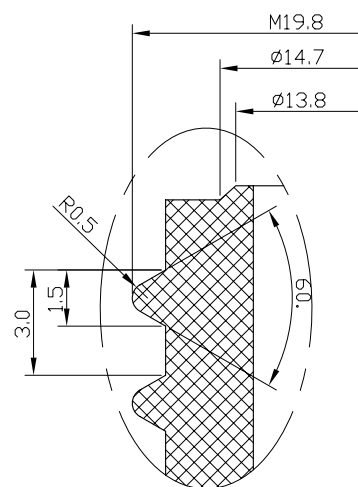
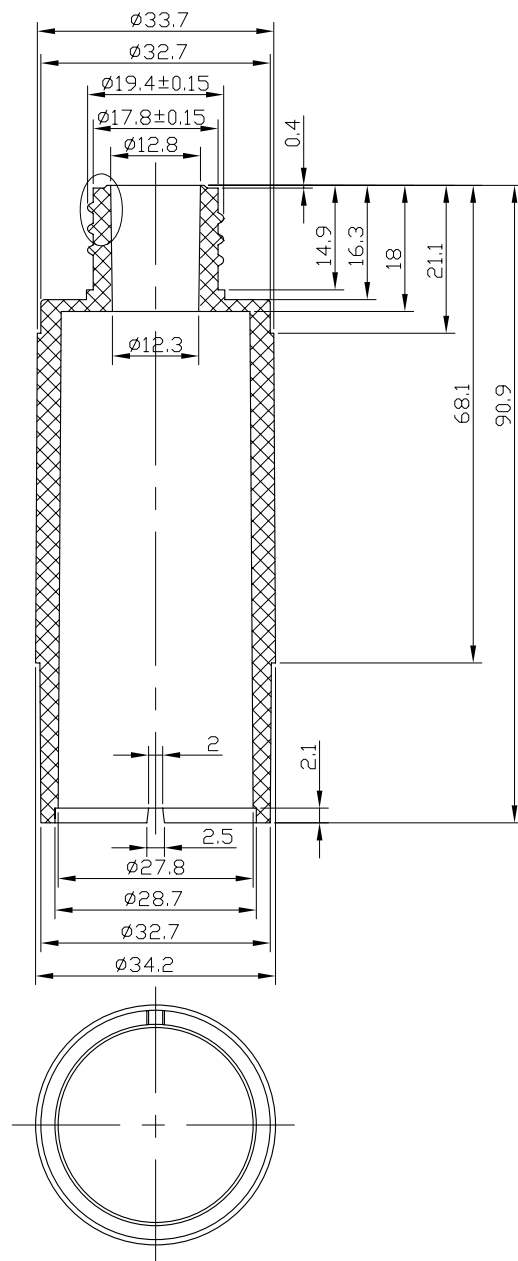
30ml Vacuum bottle
-outer base

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Data:
single thread
P=3.18
right-hand thread

Mark	Modifications	Modifier	Date



0 $\geq$ 10-- $\pm$ 0.15
10 $\geq$ 40-- $\pm$ 0.20
40 $\geq$ 90-- $\pm$ 0.3
90 $\geq$ 200-- $\pm$ 0.5
Angular-- $\pm$ 0.5°

MAT' L: **AS**

SCALE:

PROG:  

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

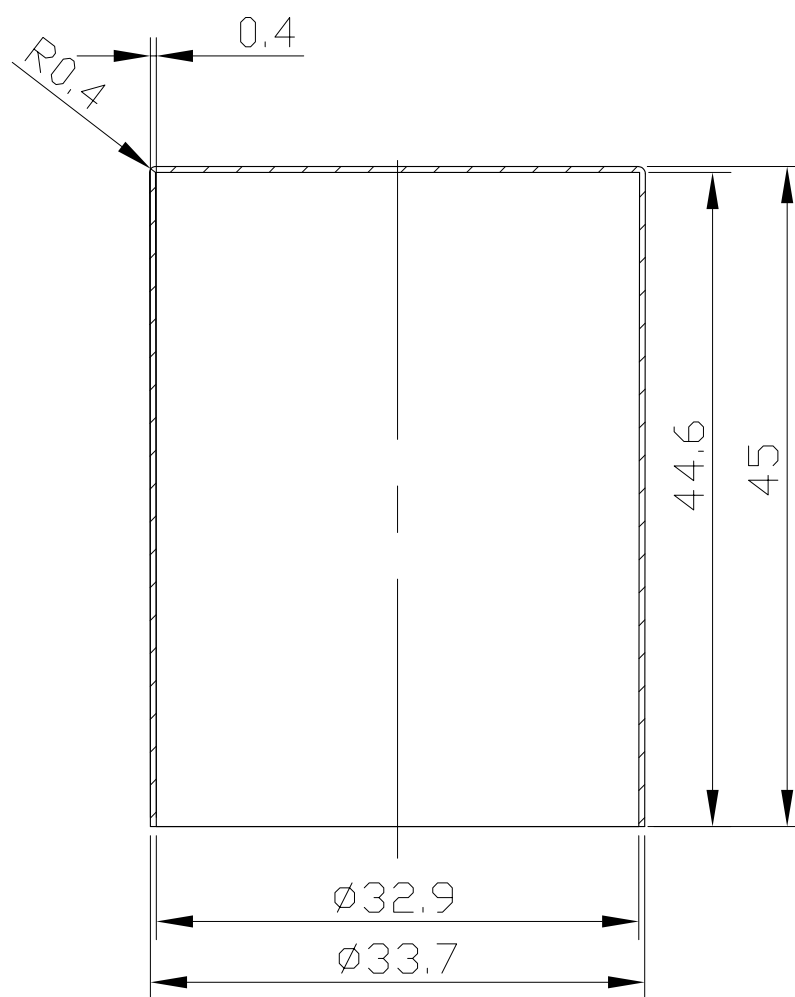
30ml Vacuum bottle
-outer bottle

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



0≥10--± 0.15
10≥40--± 0.20
40≥90--± 0.3
90≥200--± 0.5
Angular--± 0.5°

MAT' L: **AL**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

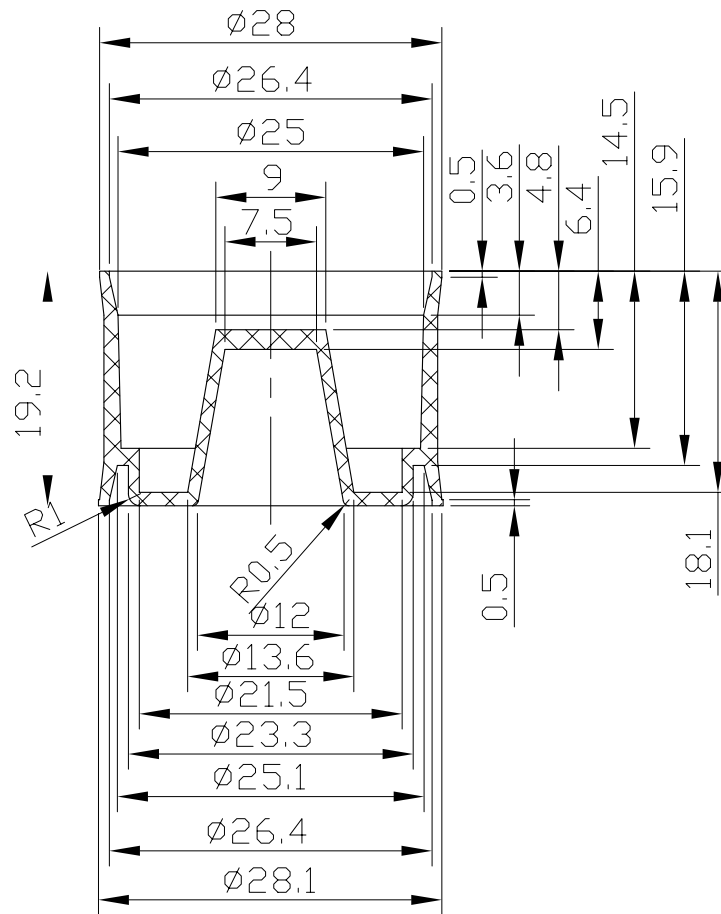
30ml Vacuum bottle
-outer cap

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



Element packaging

0≥10--± 0.15
10≥40--± 0.20
40≥90--± 0.3
90≥200--± 0.5
Angular--± 0.5°

MAT' L: **PE**

SCALE:

PROG:  

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

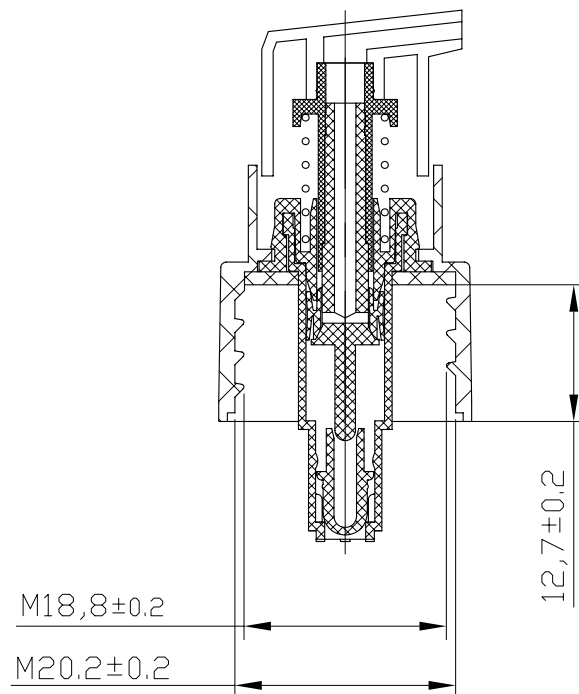
30ml Vacuum bottle
-piston

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark Modifications Modifier Date



0 ≥ 10 -- ± 0.15
 10 ≥ 40 -- ± 0.20
 40 ≥ 90 -- ± 0.3
 90 ≥ 200 -- ± 0.5
 Angular -- ± 0.5°

MAT' L:

SCALE:

PROG: 

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

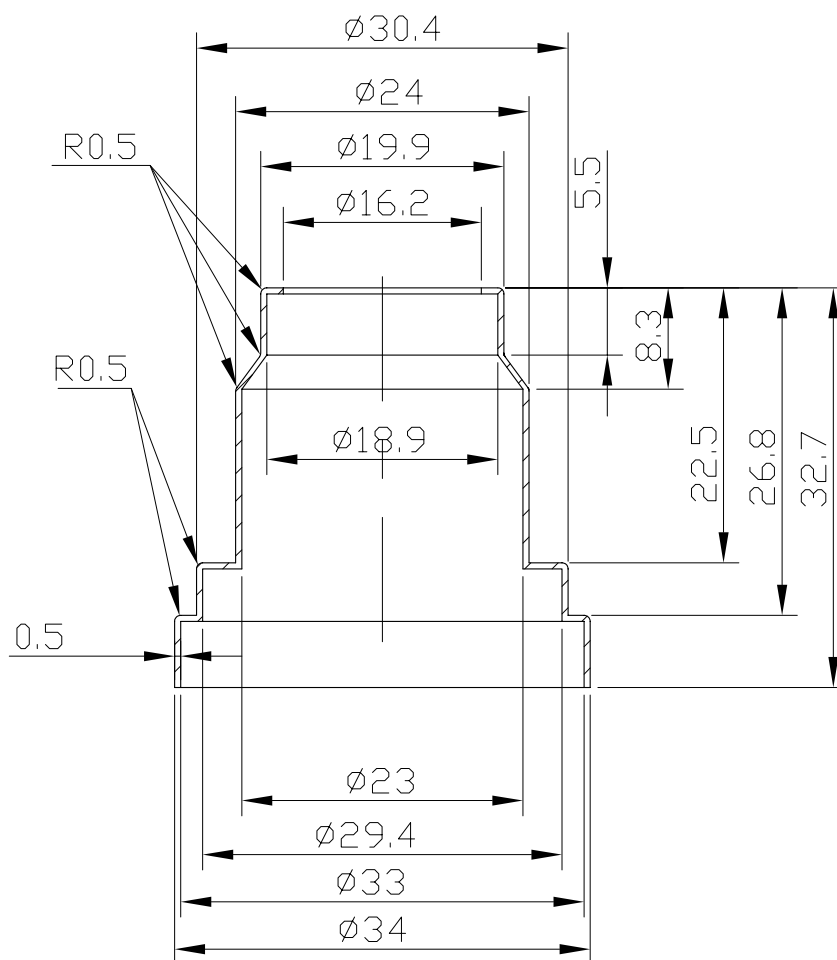
30ml Vacuum bottle
 -20/410 pump

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark	Modifications	Modifier	Date



$0 \geq 10 \rightarrow \pm 0.15$
 $10 \geq 40 \rightarrow \pm 0.20$
 $40 \geq 90 \rightarrow \pm 0.3$
 $90 \geq 200 \rightarrow \pm 0.5$
 Angular $\rightarrow \pm 0.5^\circ$

MAT' L: **AL**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

30ml Vacuum bottle
-shoulder

PA2020012-30ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY: