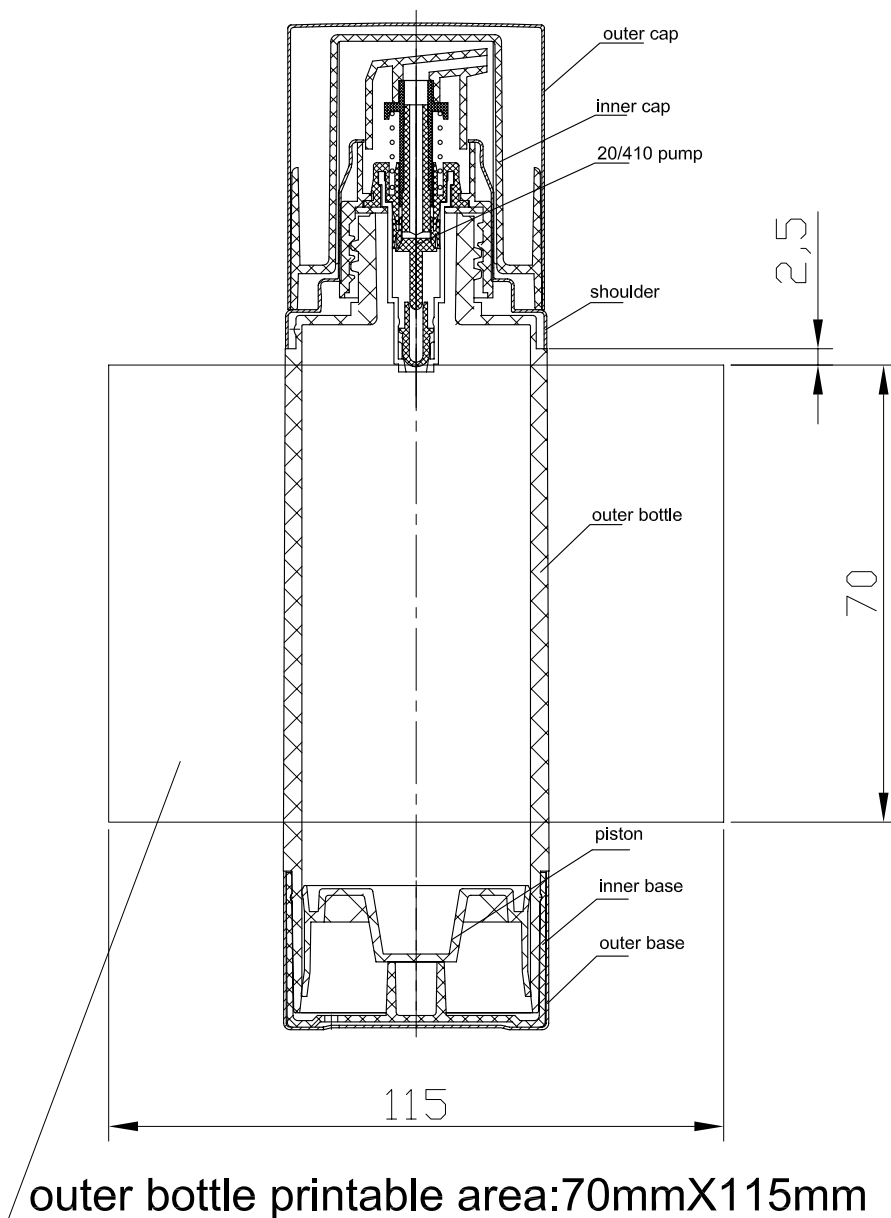




Mark	Modifications	Modifier	Date



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

MAT' L:

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

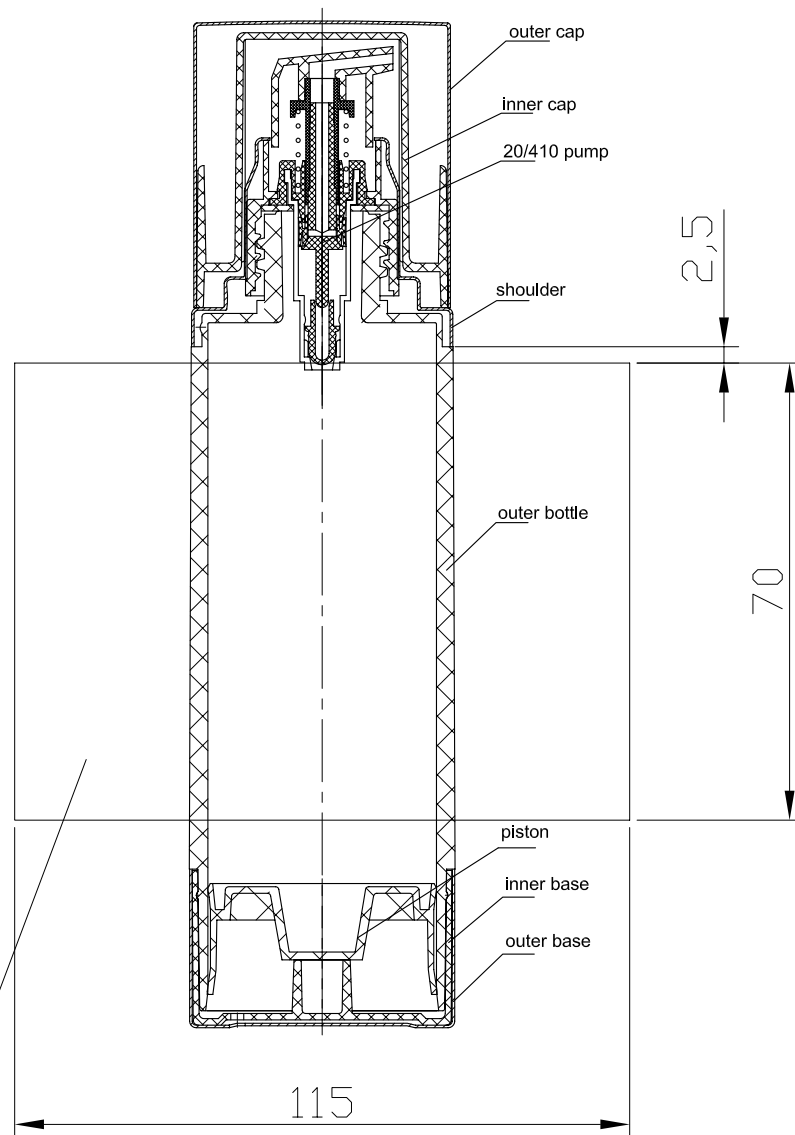
80ml Vacuum bottle
-Assembly

PA2020014-80ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



outer bottle printable area:70mmX115mm

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:

80ml Vacuum bottle
-Assembly

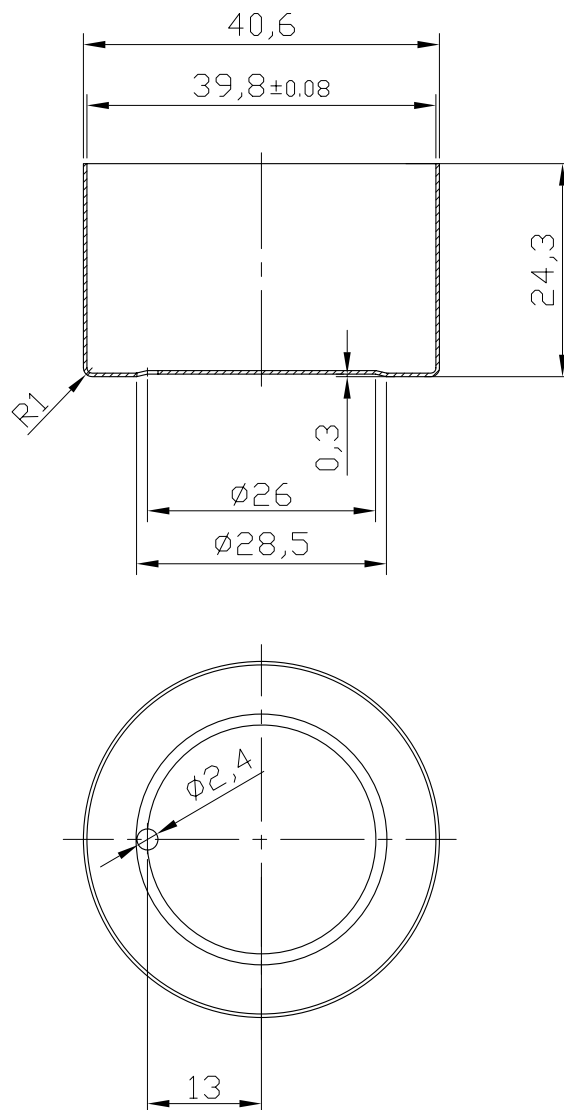
PA2020014-80ml

DESIGNER: Eric

CHECKED BY:

APPROVED 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: **AL**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

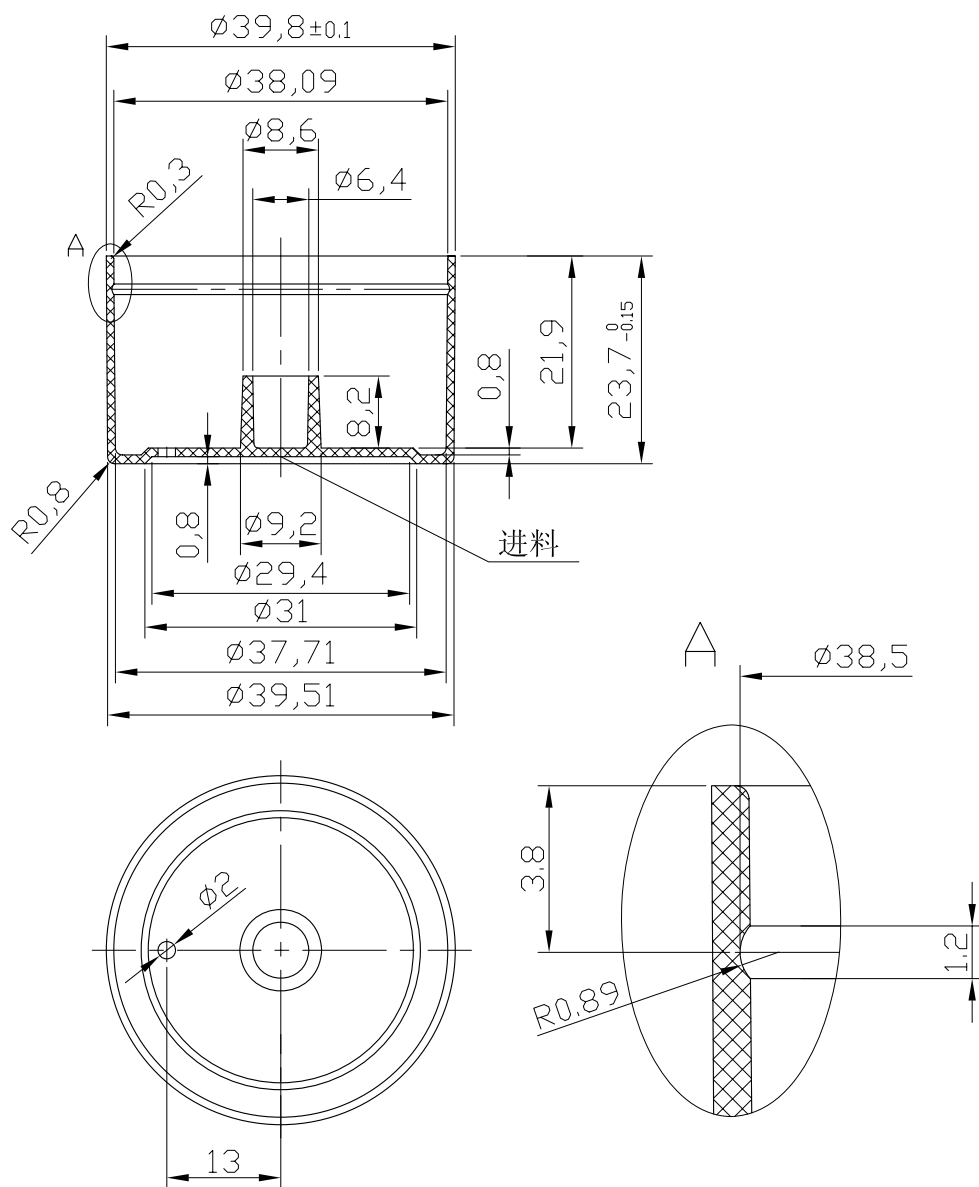
80ml Vacuum bottle
 -outer base

PA2020014-80ml

DESIGNER: **Eric**

CHECKED BY:

APPROVED BY:



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°

MAT' L: PP

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

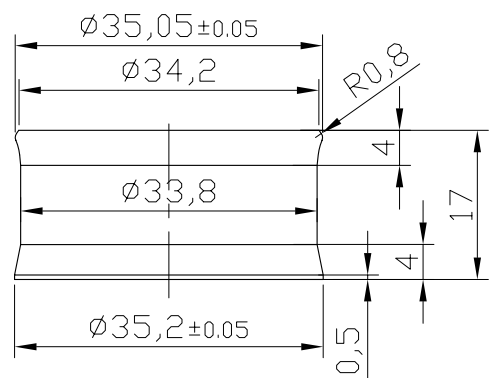
80ml Vacuum bottle
-inner base

PA2020014-80ml

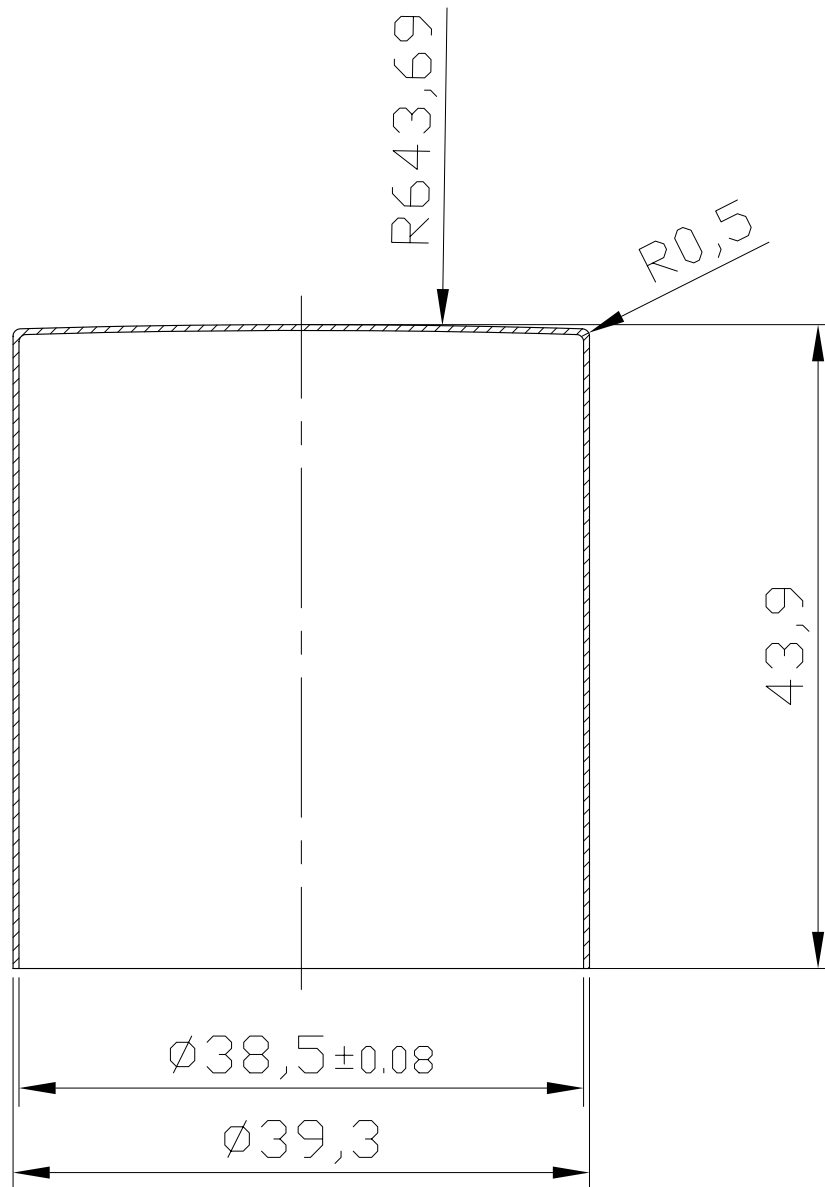
DESIGNER: Eric

CHECKED BY:

APPROVED BY:



 Element packaging	PRODUCT:	80ml Vacuum bottle -piston
	DRW. NO:	PA2020014-80ml
$0 \geq 10 - \pm 0.15$ $10 \geq 40 - \pm 0.20$ $40 \geq 90 - \pm 0.3$ $90 \geq 200 - \pm 0.5$ Angular-- $\pm 0.5^\circ$	MAT' L: PE	PART WEIGHT: DESIGNER: Eric
SCALE:	DATE: 2009/11/12	CHECKED BY:
PROG: 	PAGE:	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:

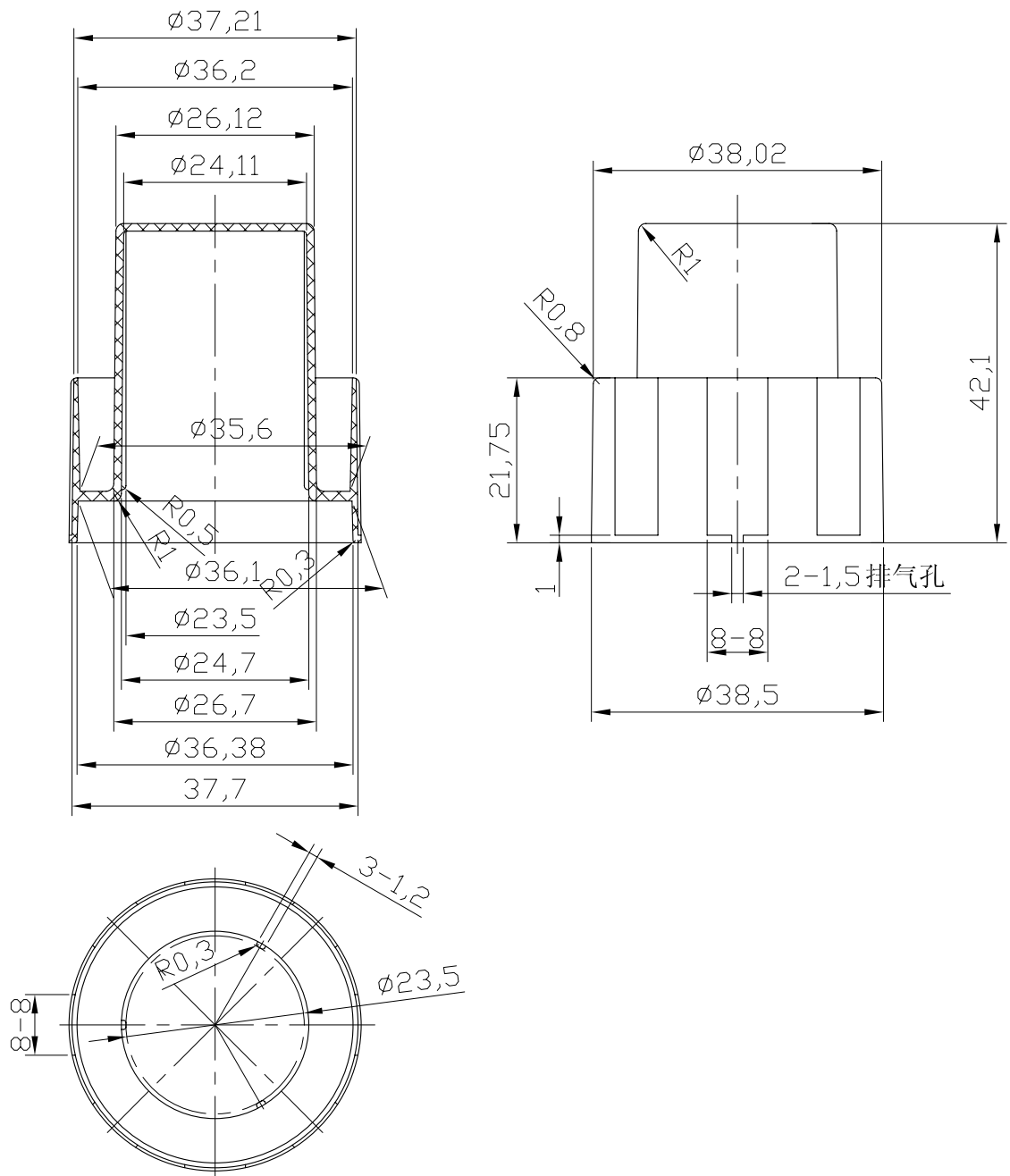
80ml Vacuum bottle
-outer cap

PA2020014-80ml

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: PP

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

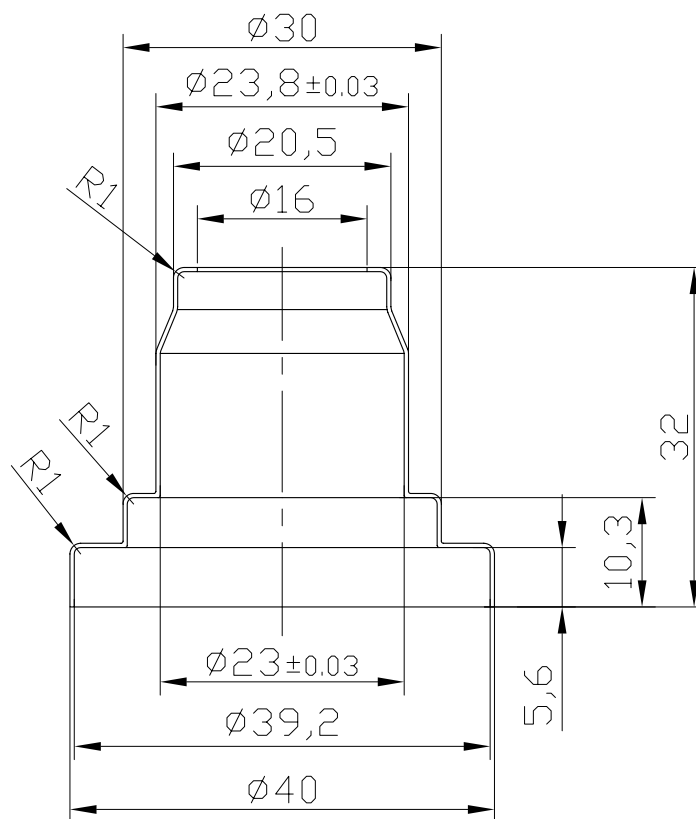
80ml Vacuum bottle
-inner cap

PA2020014-80ml

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:

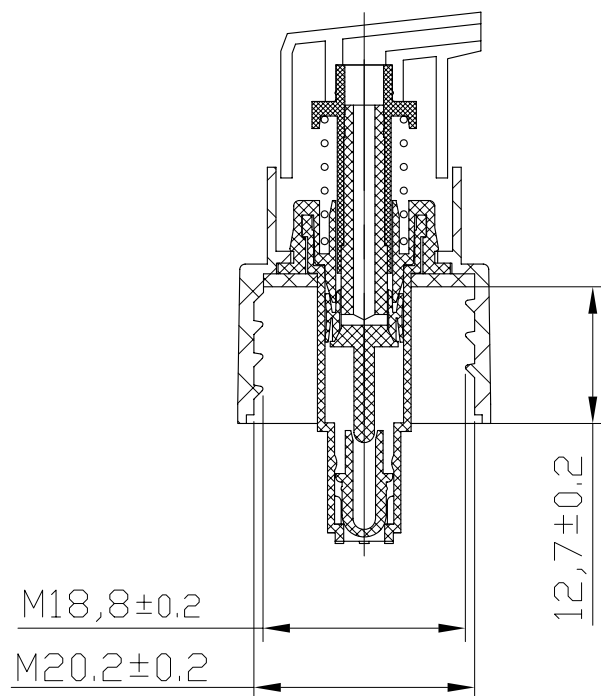
80ml Vacuum bottle
-shoulder

PA2020014-80ml

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:

SCALE:

PROG:



PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

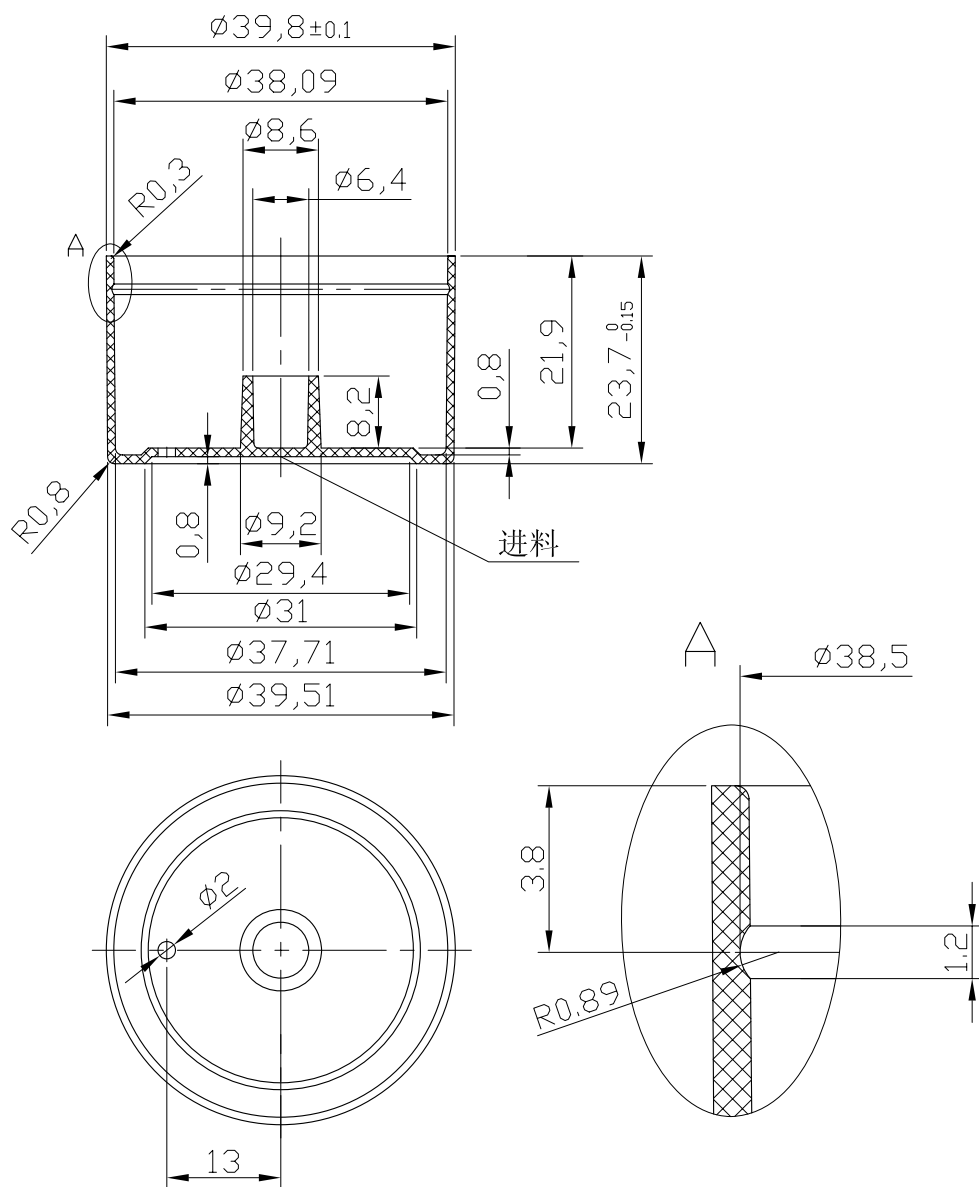
80ml Vacuum bottle
-20/410 pump

PA2020014-80ml

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: PP

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

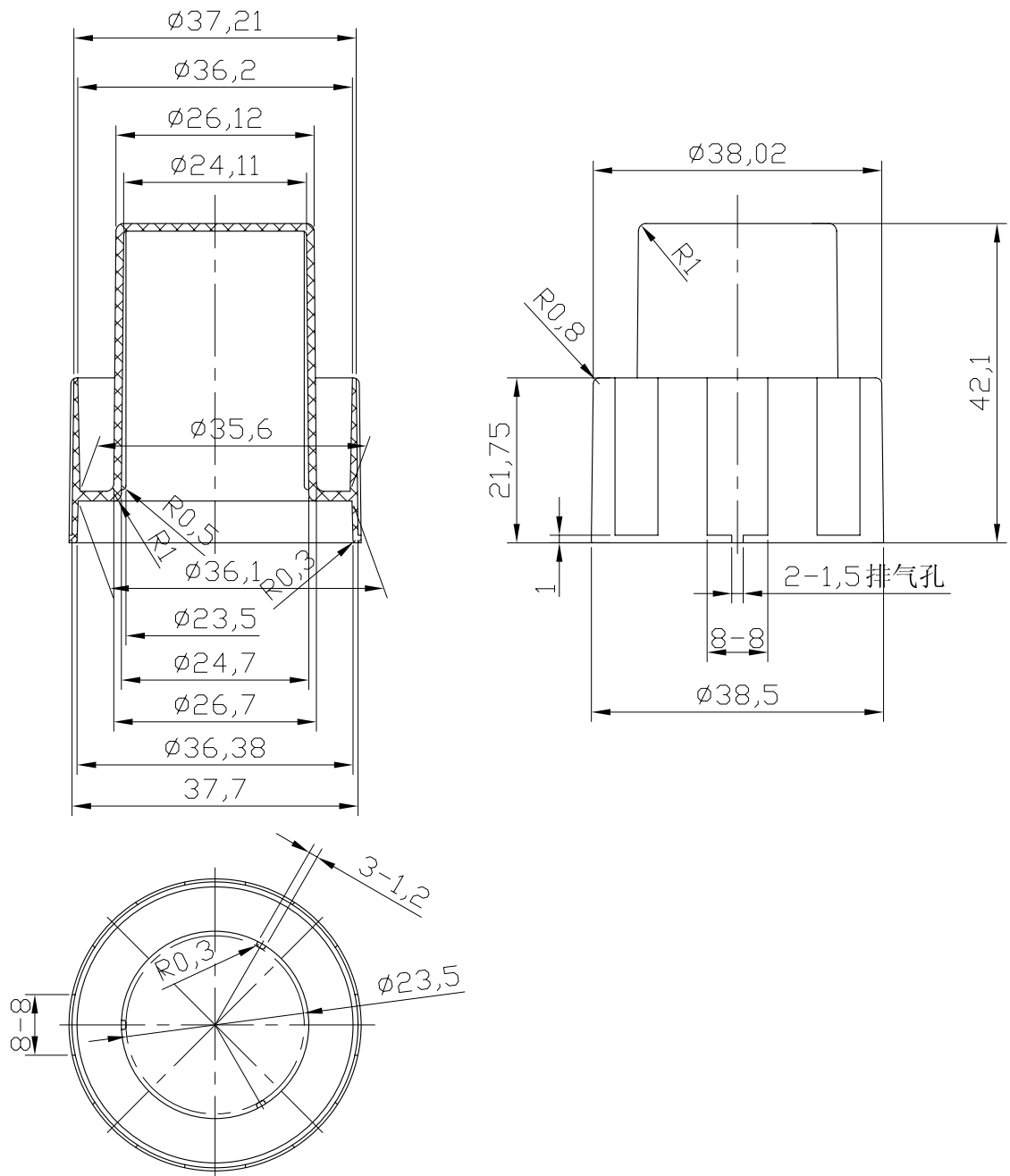
80ml Vacuum bottle
-inner base

PA2020014-80ml

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: PP

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

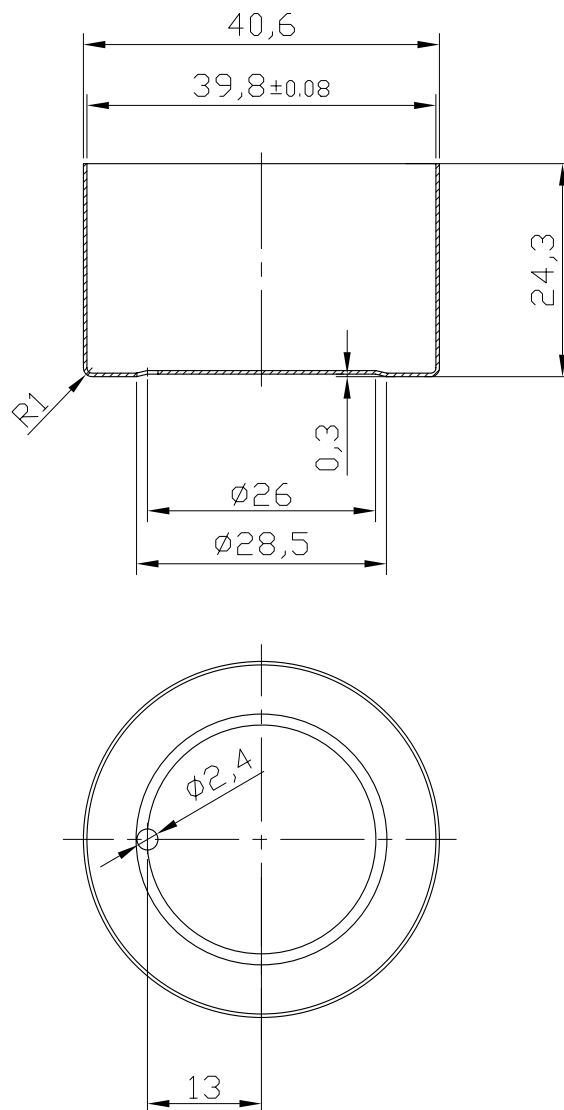
80ml Vacuum bottle
-inner cap

PA2020014-80ml

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:

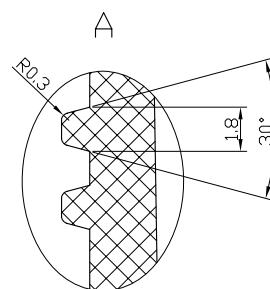
80ml Vacuum bottle
-outer base

PA2020014-80ml

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-- $\pm 0.5^\circ$

MAT'L: AS

SCALE:

PROG: 

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

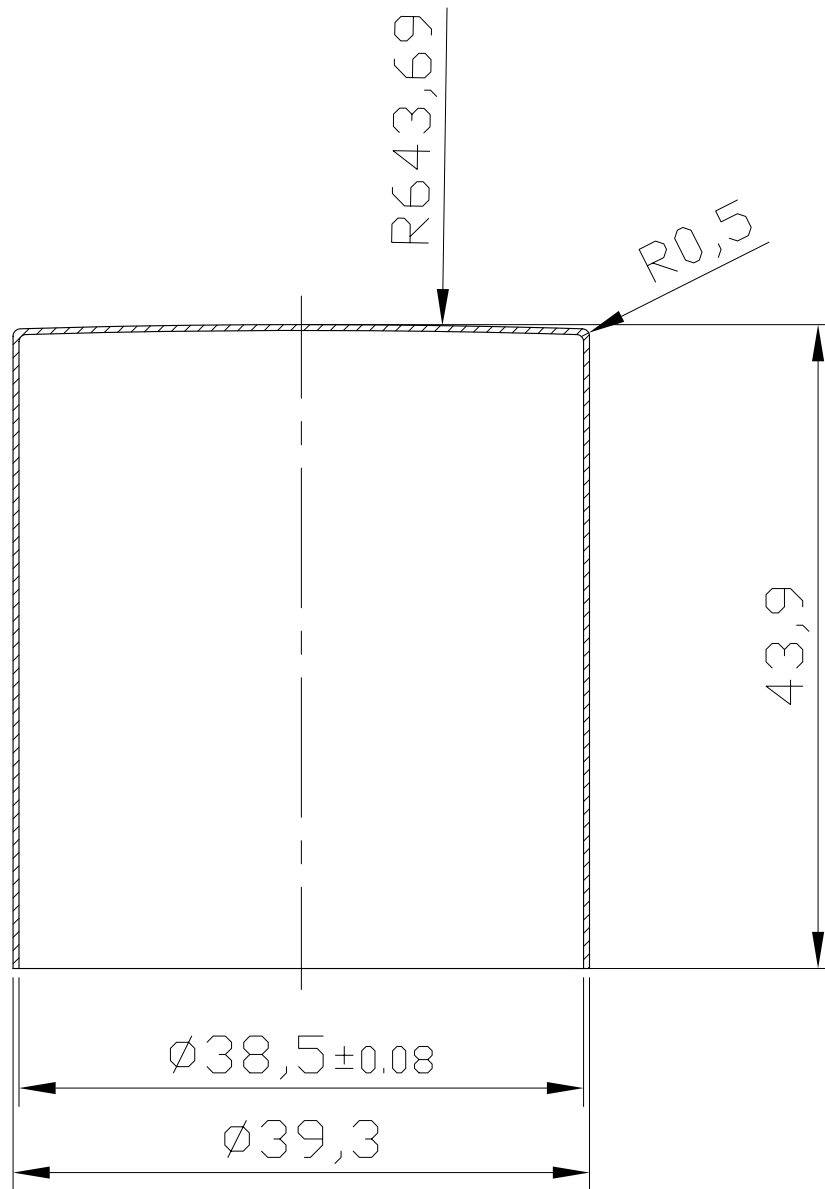
80ml Vacuum bottle
-outer bottle

PA2020014-80ml

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:

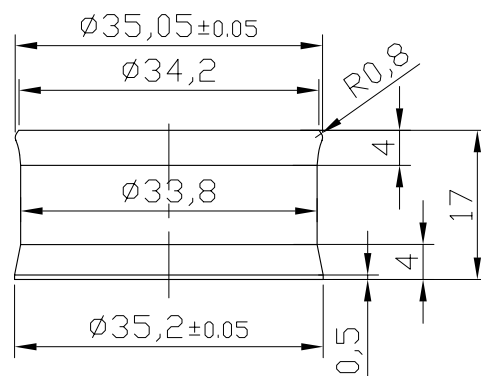
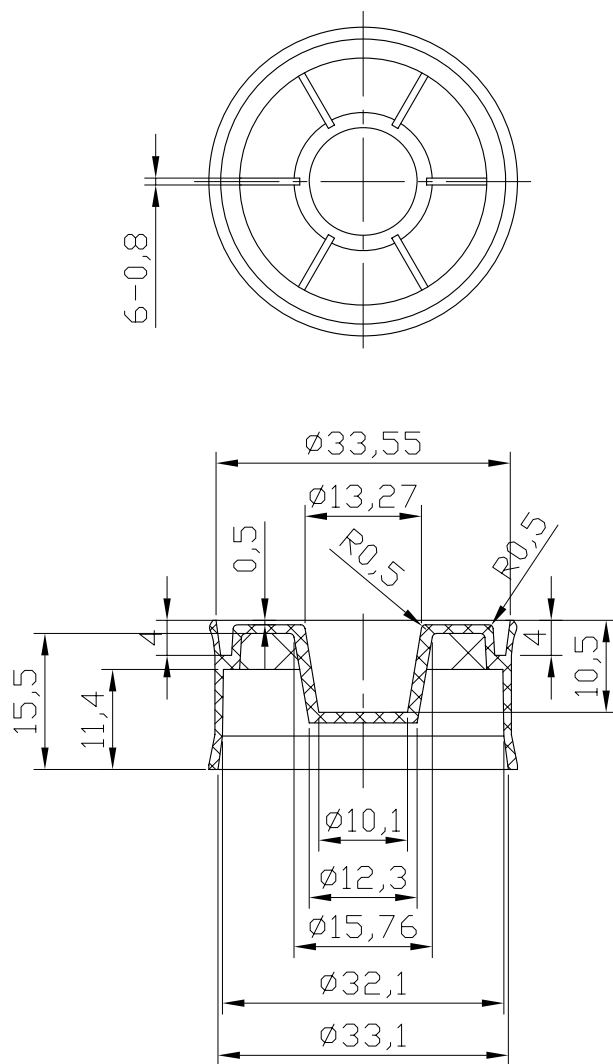
80ml Vacuum bottle
-outer cap

PA2020014-80ml

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: **PE**

SCALE:

PROG:

PRODUCT:

DRW. NO:

PART WEIGHT:

DATE: 2009/11/12

PAGE:

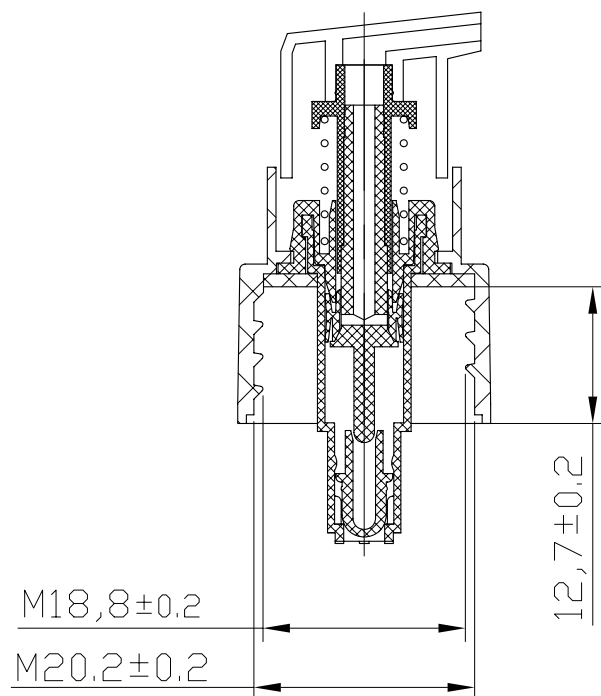
80ml Vacuum bottle
-piston

PA2020014-80ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY:



Mark

Modifications

Modifier Date



Element packaging

PRODUCT:

80ml Vacuum bottle
-20/410 pump

DRW. NO:

PA2020014-80ml

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

MAT' L:

SCALE:

PROG:



PART WEIGHT:

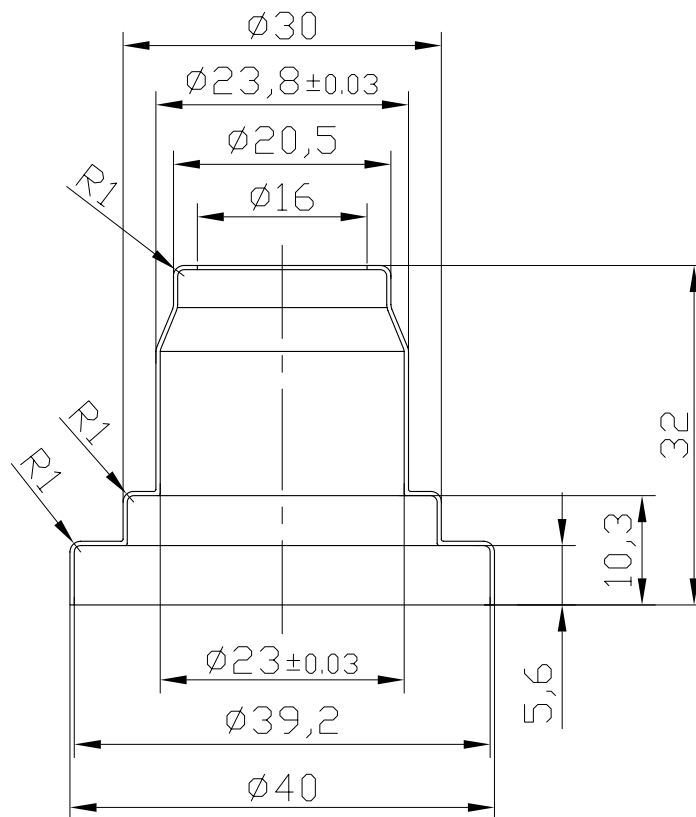
DATE: 2009/11/12

PAGE:

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:

80ml Vacuum bottle
-shoulder

PA2020014-80ml

DESIGNER: Eric

CHECKED BY:

APPROVED BY: