

May 08, 2023

**Attention:** Nicole Kilgore  
PRESSURE VESSEL ENGINEERING INC  
PO BOX 112  
1440 KING STREET NORTH UNIT# 1  
ST JACOBS, ON N0B 2N0

The design submission, Tracking Number 2023-01223, Web Portal Number 2023-S0712, originally received on February 27, 2023 was surveyed and accepted for registration as follows:

**CRN :** 0E15444.52 **Accepted on:** May 08, 2023  
**Reg Type:** ADDITION TO ACC. FITTING **Expiry Date:** February 27, 2033  
**Drawing No. :** C-11804, C-11826, C-12736, C-14794 Rev J, F, F, F  
**Fitting type:** FILTER HOUSING  
Design registered in the name of : PARKER HANNIFIN CORPORATION

Description	MAWP	Design Temperature
Pr.-Temp. Ratings Per Drawings		

**The registration is conditional on your compliance with the following notes:**

- This design is registered without a User Design Requirements form (UDR) based on the understanding that the conditions listed in U-2(a)(2) are not applicable.

- The following drawings are part of this registration: DWG. No.: C-11734 Rev. M, DWG. No.: C-12658 Rev. B, DWG. No.: C-12659 Rev. B, DWG. No.: B-11729 Rev. G, DWG. No.: B-11730 Rev. F, DWG. No.: B-11731 Rev. F, DWG. No.: B-12651 Rev. C & DWG. No.: B-12652 Rev. C.

As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction is SECTION VIII, DIV. 1.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration or AB-351 Declaration of Conformity as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.

- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration or AB-351 Declaration of Conformity form.

- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, until that date.

- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3360 or fax (780) 437-7787 or e-mail [Issa@absa.ca](mailto:Issa@absa.ca).

Sincerely,



the pressure equipment safety authority

9410 - 20 Ave N.W.  
Edmonton, Alberta, Canada T6N 0A4  
Tel: (780) 437-9100 / Fax: (780) 437-7787

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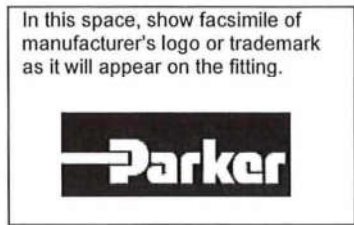
May 08, 2023

A handwritten signature in black ink, appearing to read 'Samir', is written over a large, faint, circular watermark or background mark.

ISSA, SAMIR, P. Eng.  
DOP Cert. No. D00009269

**STATUTORY DECLARATION**  
**Registration of Fittings**  
Single or Multiple Fitting Designs within one Fitting Category

I, John D'Antonio, Engineering Supervisor  
(name of applicant) (position title) (must be in a position of authority)  
of Parker Hannifin Corporation Industrial Gas Filtration and Generation Division  
(name of manufacturer)  
located at 242/260 Neck Road, Haverhill, MA, 01835, USA  
(plant address)



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only one)

- comply with the requirements of \_\_\_\_\_ which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME VIII-1 2021 Edition as supported by the (title of code of construction or other applicable document) attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

**Quality Program Verification and Manufacturing Sites**

A copy of the Quality Certificate from each manufacturing site must be included

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	Drawings (C-12736, C-11826, C-11804, C-14794)	ISO 9001: 2015	The design, manufacture, sales/marketing, distribution/supply chain, technical service and support of filtration, purification, pollution prevention, dehumidification and gas	01 September, 2023	DNV GL - Business Assurance	242/260 Neck Road, Haverhill, MA, 01835, USA
2.						

In support of this application, the following information, calculations and/or test data are attached:

Calculations (18562c-1, 18562c-2, 18562-3, 18562c-4) , ISO Certificate, Scope Document (18562s-1), Original Acceptance Documentation

John Dantonio (Signature of the Declarer) 10/27/22 (Date)

DECLARED before me at Plaistow in the State of NH of NH (city) (province, territory, or state)

this 31 day of October, 2022 (Month) (Year)

(print) Melissa Lacroix (a Commissioner of Oaths or Notary Public)

(sign) Melissa Lacroix (a Commissioner of Oaths or Notary Public)

10/13/2026 (expiry date (mm/dd/yy))



Commissioner of Oaths / Notary Public in and for: NH (province, territory, or state)

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category E. CRN: OE15444.52 Registered Date: 2023-05-08 Expiry Date: 2033-02-27 Signature: Samir (Signature of the Administrator/SCO) The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline

2023-01223 ABSA SAFETY CODES ACT - PROVINCE OF ALBERTA ACCEPTED: OE15444.52 See acceptance letter for conditions of registration. Date: 2023-05-08 By: Samir ISSA, P. Eng. DOP: D00009269

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

**Table 1\*\* Scope of Fitting Designs**

Item #	Primary Pressure Bearing / Retaining Component	Material of Construction	Port Connections and Size Range	MDMT	Rated Pressure		Pressure Class(es) / Schedule(s)	Design Code(s) of Construction	Reference Catalogue (pages) or Drawing(s)
					At Ambient Temperature	At Maximum Temperature			
C-12736	Shell/Body	SA-479 316 Bar	1/2" NPT	-20°F	300 PSI	300 PSI @ 200°F	-----	ASME VIII-1 2021 Ed.	C-12736
C-11826	Shell/Body	SA-479 316 Bar	1/2" NPT	-20°F	250 PSI	250 PSI @ 200°F	-----	ASME VIII-2021 Ed.	C-11826
C-11804	Shell/Body	SA-479 316 Bar	1/4" NPT	-20°F	300 PSI	300 PSI @ 200°F	-----	ASME VIII-2021 Ed.	C-11804
C-14794	Shell/Body	SA-479 316 Bar	1/4" NPT	-20°F	250 PSI	300 PSI @ 200°F	-----	ASME VIII-2021 Ed.	C-14794

**Table 2 Additional Scope Information**

List/Attach Additional Detail and References (Product Configurations, Options, Illustrations, etc.)
Example: Series X Options

\*\* For additional alternatives of Table 1, refer to Form AB-41a, Guide for Completing Form AB-41

CRN: 0E15444.52

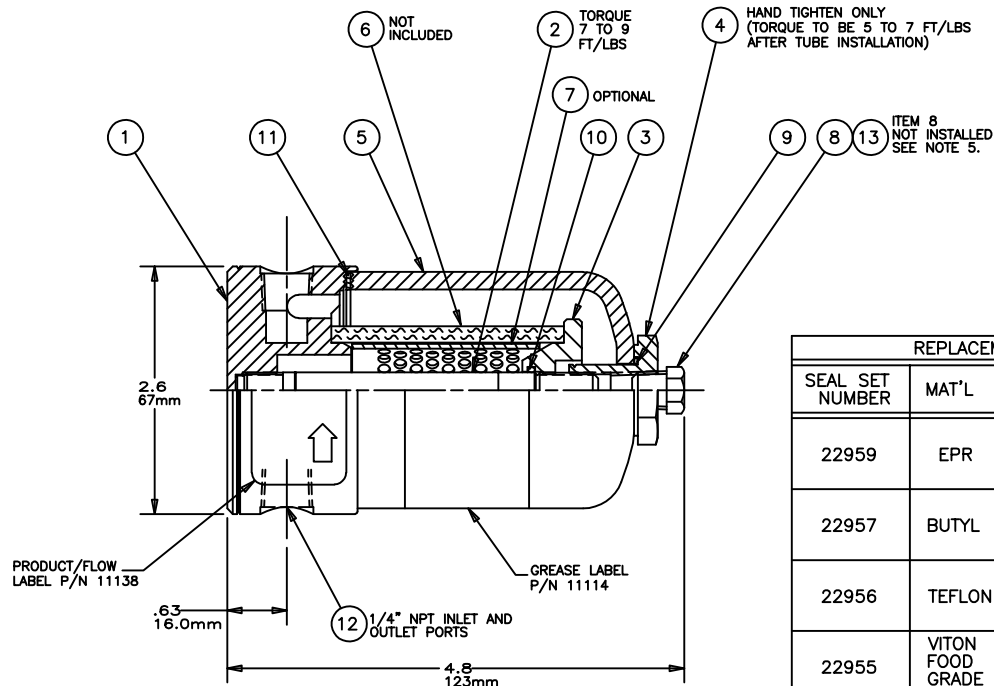
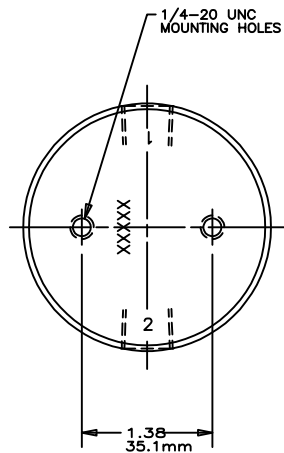
Date: 2023-05-08

PARTS LIST					
NO.	DESCRIPTION	PART NO.	DWG NO.	MAT'L	QTY
1	HEAD	33185-1/4	C-11734	316 SS	1
2	TIEROD	33962	B-11729	316 SS	1
3	ELEMENT RETAINER	33963	B-11730	316 SS	1
4	TIEUT	33267	B-11731	316 SS	1
5	BOWL	33160	B-12651	316 SS	1
6	FILTER TUBE	100-12-[]	-----	-----	-----
7	SUPPORT CORE	SS-100-12	C-10118	316 SS	1
8	PLUG	11929	A-11319	316 SS	1
9	O-RING (-015)	22949-2	-----	VITON FOOD GRADE	1
10	O-RING (-012)	22949-3	-----	VITON FOOD GRADE	1
11	FLAT GASKET	22955-1	A-11446	VITON FOOD GRADE	1
12	THREAD PROTECTOR	21208	A-11862	PLASTIC	2
13	THREAD PROTECTOR	21207	A-11862	PLASTIC	1
---	MOUNTING BRACKET KIT	11038	A-10235	CAD/PTD	---

LEGEND

- ☒ = REPLACEABLE PARTS
- ☒ = OPTIONAL PARTS
- [] = SPECIFY FILTER TUBE GRADE (BX OR DX)

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
G		ADDED NOTE 6	J.D.	4/12
H		REVISED NOTES	J.D.	6/12
J		REVISED NOTES	J.D.	8/22



REPLACEMENT SEAL SETS				
SEAL SET NUMBER	MAT'L	CONSISTS OF		
		NO	QTY	PART NO.
22959	EPR	9	1	22959-2
		10	1	22959-3
		11	1	22959-1
22957	BUTYL	9	1	22957-2
		10	1	22957-3
		11	1	22957-1
22956	TEFLON	9	1	22956-2
		10	1	22956-3
		11	1	22956-1
22955	VITON FOOD GRADE	9	1	22949-2
		10	1	22949-3
		11	1	22955-1
22954	SILICONE	9	1	22954-2
		10	1	22954-3
		11	1	22954-1
22951	BUNA	9	1	22950-2
		10	1	22950-3
		11	1	22951-1

NOTES:

- ALL O-RINGS TO BE LUBRICATED WITH APPROVED LUBRICANT ONLY.
- HOUSING TO BE SHIPPED WITH PLASTIC THREAD PROTECTORS (ITEMS 12 & 13) INSTALLED.
- PRESSURE RATING: 300 psig AT 200°F.
- "V" GROOVE IDENTIFIES PARTS MADE FROM 316 SS.
- ALL ASSEMBLY AND PACKAGING MUST BE PERFORMED IN ACCORDANCE WITH THE APPROPRIATE MANUFACTURING METHOD SHEET SPECIFIED FOR THIS ASSEMBLY.
- DESIGNED IAW ASME VIII DIV 1 2021 ED.  
MDMT: -20 F  
HYDROTEST PRESSURE: 390 PSIG  
CORROSION ALLOWANCE: 0  
NDE: NONE  
IMPACT TEST EXEMPT PER UHA-51(d)  
PWHT: NONE

2023-01223

**ABSA**

SAFETY CODES ACT - PROVINCE OF ALBERTA

**ACCEPTED: CE15444 52**

See acceptance letter for conditions of registration.

Date: 2023-05-08 By: *Samir Issa*

SAMIR ISSA, P.Eng. COPR. 000099569

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act

THIRD ANGLE PROJECTION

TOLERANCES EXCEPT AS NOTED

XX.Xmm ±.015 ±.38mm

.XXX XX.XXmm ±.005 ±.13mm

ANGULAR ±1'

6.3 SURFACE ROUGHNESS OR BETTER

REMOVE ALL BURRS AND SHARP EDGES.

ENG. APVD.: DATE:

CHK'D BY: DATE:

DRAWN BY: PES DATE: 2/11/88

MAT'L: SEE PARTS LIST

**Parker Filtration** Parker Hannifin Corporation Filtration and Separation Division Walpole, Massachusetts USA

**BALSTON**

TITLE: FILTER HOUSING

MODEL NO.: 33S6-1/4

SCALE: 1 : 1 SHEET: 1 OF 1

P/N: 33S6-1/4 DWG.NO.: C-11804



PARTS LIST					
NO.	DESCRIPTION	PART NO.	DWG NO.	MATL	QTY
1	HEAD	33185-17/2	C-11733	316 SS	1
2	TIEROD	45962	B-11729	316 SS	1
3	ELEMENT RETAINER	33963	B-11730	316 SS	1
4	TIENUT	33267	B-11731	316 SS	1
5	BOWL	45160	B-12652	316 SS	1
6	FILTER TUBE	100-25-[]	-----	-----	-----
7	SUPPORT CORE	SS-100-25	C-10118	316 SS	-----
8	PLUG	11929	A-11319	316 SS	1
9	O-RING (-015)	22949-2	-----	VITON FOOD GRADE	1
10	O-RING (-012)	22949-3	-----	VITON FOOD GRADE	1
11	FLAT GASKET	22955-1	A-11446	VITON FOOD GRADE	1
12	THREAD PROTECTOR	21209	A-11862	PLASTIC	2
13	THREAD PROTECTOR	21207	A-11862	PLASTIC	1
--	MOUNTING BRACKET KIT	11038	A-10235	CAD/PTD	-----

### LEGEND

- ☒ = REPLACEABLE PARTS
- ☒ = OPTIONAL PARTS
- [] = INDICATE FILTER GRADE (BX OR DX)

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
D		ADDED NOTE 6	J.D.	
E		REVISED NOTES	J.D.	6/12
F		REVISED NOTES	J.D.	8/22

D

D

C

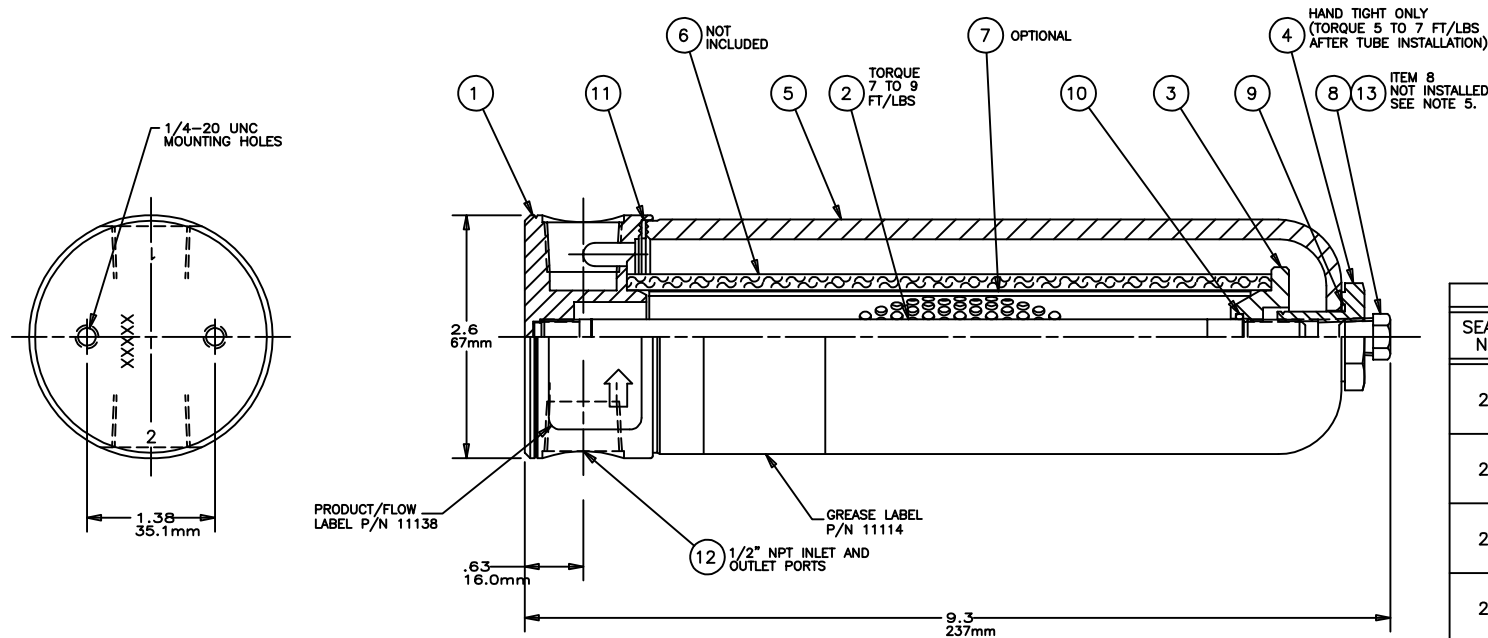
C

B

B

A

A



REPLACEMENT SEAL SETS				
SEAL SET NUMBER	MAT'L	CONSISTS OF		
		NO	QTY	PART NO.
22959	EPR	9	1	22959-2
		10	1	22959-3
		11	1	22959-1
22957	BUTYL	9	1	22957-2
		10	1	22957-3
		11	1	22957-1
22956	TEFLON	9	1	22956-2
		10	1	22956-3
		11	1	22956-1
22955	VITON FOOD GRADE	9	1	22949-2
		10	1	22949-3
		11	1	22955-1
22954	SILICONE	9	1	22954-2
		10	1	22954-3
		11	1	22954-1
22951	BUNA	9	1	22950-2
		10	1	22950-3
		11	1	22951-1

#### NOTES:

- ALL O-RINGS TO BE LUBRICATED WITH APPROVED LUBRICANT ONLY.
- HOUSING TO BE SHIPPED WITH PLASTIC THREAD PROTECTORS (ITEMS 12 & 13) INSTALLED.
- PRESSURE RATING: 250 psig AT 200°F.
- "V" GROOVE IDENTIFIES PARTS MADE FROM 316 SS.
- ALL ASSEMBLY AND PACKAGING MUST BE PERFORMED IN ACCORDANCE WITH THE APPROPRIATE MANUFACTURING METHOD SHEET SPECIFIED FOR THIS ASSEMBLY.
- DESIGNED IAW ASME VIII DIV 1 2021 ED.  
 MDMT: -20 F  
 HYDROTEST PRESSURE: 325 PSIG  
 CORROSION ALLOWANCE: 0  
 NDE: NONE  
 IMPACT TEST EXEMPT PER UHA-51(d)  
 PWHT: NONE

2023-01223

**ABSA**

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: **CE15444\_52**

See acceptance letter for conditions of registration.

Date: 2023-05-08 By: *[Signature]*

SAMIR ISSA, P. Eng.  
 809-2009999

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act

THIRD ANGLE PROJECTION

TOLERANCES EXCEPT AS NOTED

.XX	±.015
X.Xmm	±.38mm
.XXX	±.005
XX.XXmm	±.13mm
ANGULAR	±.1°
63/ SURFACE	ROUGHNESS OR BETTER

REMOVE ALL BURRS AND SHARP EDGES.

ENG. APVD.: DATE:

CHKD BY: DATE:

DRAWN BY: DATE: J.K. 6/26/85

MAT'L: SEE PARTS LIST

Parker Filtration

Parler Hamfin Corporation  
 Filtration and Separation Division  
 Greenville, Massachusetts USA

**BALSTON**

TITLE: FILTER HOUSING

FINISH: -----

MODEL NO.: 45S6

SCALE: 1 : 1 SHEET: 1 OF 1

P/N: 45S6 DWG.NO.: C-11826

4

1

3

4

2

1

1

NO.	DESCRIPTION	PART NO.	DWG NO.	MATL	QTY	⊗	⊕
1	HEAD	33165-1/2	C-11733	316 SS	1	⊗	⊕
2	TIEROD	33982	B-11729	316 SS	1	⊗	⊕
3	ELEMENT RETAINER	33963	B-11730	316 SS	1	⊗	⊕
4	TIENUT	33267	B-11731	316 SS	1	⊗	⊕
5	BOWL	33160	B-12651	316 SS	1	⊗	⊕
6	FILTER TUBE	100-12-[ ]	-----	-----	-		
7	SUPPORT CORE	SS-100-12	C-10118	316 SS	-	⊗	⊕
8	PLUG	11929	A-11319	316 SS	1	⊗	⊕
9	O-RING (-015)	22949-2	-----	VITON FOOD GRADE	1		
10	O-RING (-012)	22949-3	-----	VITON FOOD GRADE	1		
11	FLAT GASKET	22955-1	A-11446	VITON FOOD GRADE	1		
12	THREAD PROTECTOR	21209	A-11862	PLASTIC	2		
13	THREAD PROTECTOR	21207	A-11862	PLASTIC	1		
--	MOUNTING BRACKET KIT	11038	A-10235	CAD/PTD	-	⊗	⊕

**LEGEND**

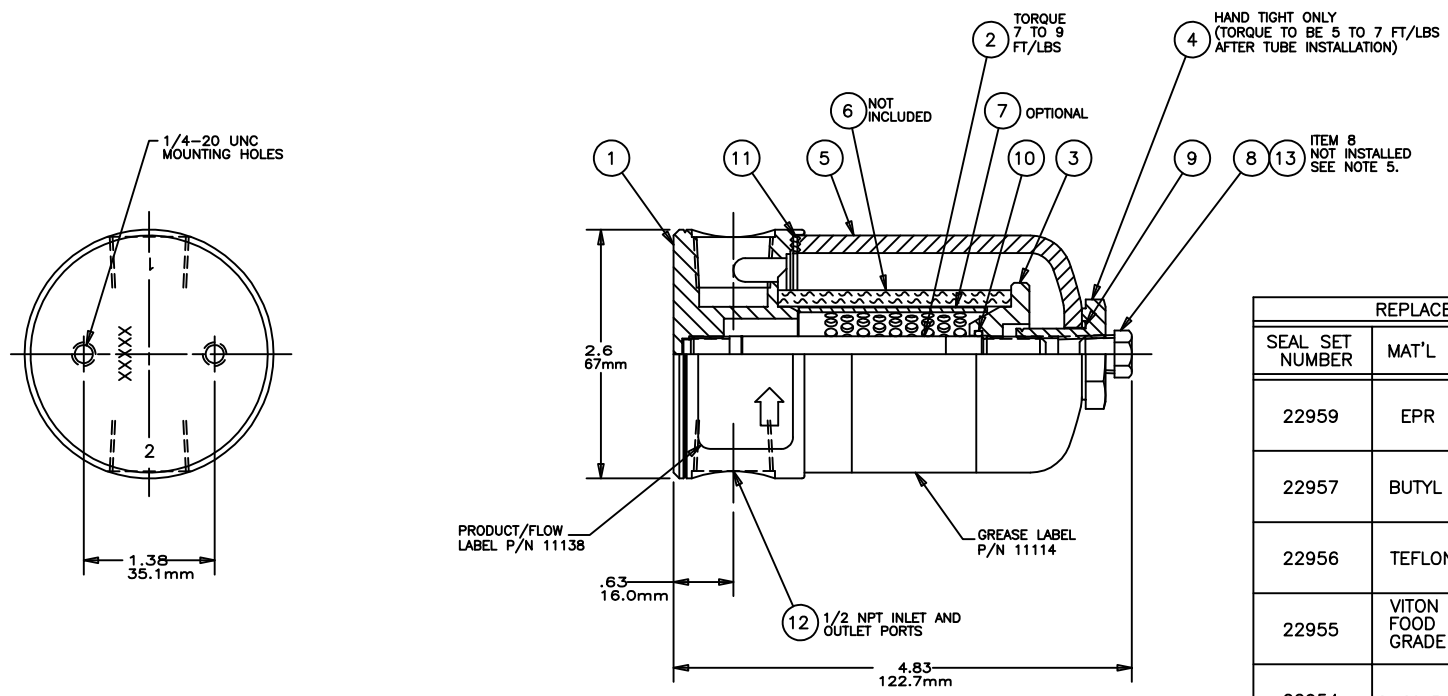
⊗ = REPLACEABLE PARTS

⊕ = OPTIONAL PARTS

[ ] = INDICATE FILTER GRADE (BX OR DX)

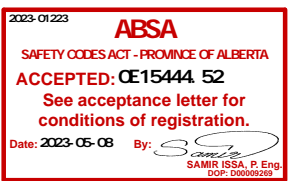
\* = INCLUDED IN AUTOMATIC DRAIN

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
D		ADDED NOTE 6	J.D.	4/12
E		REVISED NOTES	J.D.	6/12
F		REVISED NOTES	J.D.	8/22



REPLACEMENT SEAL SETS				
SEAL SET NUMBER	MAT'L	CONSISTS OF		
		NO	QTY	PART NO.
22959	EPR	9	1	22959-2
		10	1	22959-3
		11	1	22959-1
22957	BUTYL	9	1	22957-2
		10	1	22957-3
22956	TEFLON	9	1	22956-2
		10	1	22956-3
		11	1	22956-1
22955	VITON FOOD GRADE	9	1	22949-2
		10	1	22949-3
		11	1	22955-1
22954	SILICONE	9	1	22954-2
		10	1	22954-3
22951	BUNA	9	1	22950-2
		10	1	22950-3
		11	1	22951-1

- NOTES:
- ALL O-RINGS TO BE LUBRICATED WITH APPROVED LUBRICANT ONLY.
  - HOUSING TO BE SHIPPED WITH PLASTIC THREAD PROTECTORS (ITEMS 12 & 13) INSTALLED.
  - PRESSURE RATING: 300 psig AT 200°F.
  - "V" GROOVE IDENTIFIES PARTS MADE FROM 316 SS.
  - ALL ASSEMBLY AND PACKAGING MUST BE PERFORMED IN ACCORDANCE WITH THE APPROPRIATE MANUFACTURING METHOD SHEET SPECIFIED FOR THIS ASSEMBLY.
  - DESIGNED IAW ASME VIII DIV 1 2021 ED.  
 MDMT: -20 F  
 HYDROTEST PRESSURE: 390 PSIG  
 CORROSION ALLOWANCE: 0  
 NDE: NONE  
 IMPACT TEST EXEMPT PER UHA-51(d)  
 PWHT: NONE



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THIRD ANGLE PROJECTION

TOLERANCES EXCEPT AS NOTED

.XX	±.015
X.Xmm	±.38mm
.XXX	±.005
XX.Xmm	±.13mm
ANGULAR ±1°	
63 SURFACE ROUGHNESS OR BETTER	

REMOVE ALL BURRS AND SHARP EDGES.

ENG. APVD.: DATE:

CHK'D BY: DATE:

DRAWN BY: PES DATE: 4/8/88

MAT'L: SEE PARTS LIST

FINISH: -----

P/N: 3356

Model No.: 33S6

SCALE: 1 : 1 SHEET: 1 OF 1

DWG. NO.: C-12736

**Parker Filtration** Parker Hannifin Corporation Filtration and Separation Division Torrington, Massachusetts USA **BALSTON**

**Filter Housing**



NO.	DESCRIPTION	PART NO.	DWG NO.	MATL	QTY	
1	HEAD	33165-1/4	C-11734	316 SS	1	
2	TIEROD	45962	B-11729	316 SS	1	
3	ELEMENT RETAINER	33963	B-11730	316 SS	1	
4	TIE NUT	33267	B-11731	316 SS	1	
5	BOWL	45160	B-12652	316 SS	1	
6	FILTER TUBE	100-25-U	-----	-----	-----	
7	SUPPORT CORE	SS-100-25	C-10118	316 SS	-----	
8	PLUG	11929	A-11319	316 SS	1	
9	O-RING (-015)	22949-2	-----	FOOD GRADE VITON	1	
10	O-RING (-012)	22949-3	-----	FOOD GRADE VITON	1	
11	FLAT GASKET	22955-1	A-11446	FOOD GRADE VITON	1	
12	THREAD PROTECTOR	21208	A-11862	PLASTIC	2	
13	THREAD PROTECTOR	21207	A-11862	PLASTIC	1	
---	MOUNTING BRACKET KIT	11038	A-10235	CAD/PTD	---	

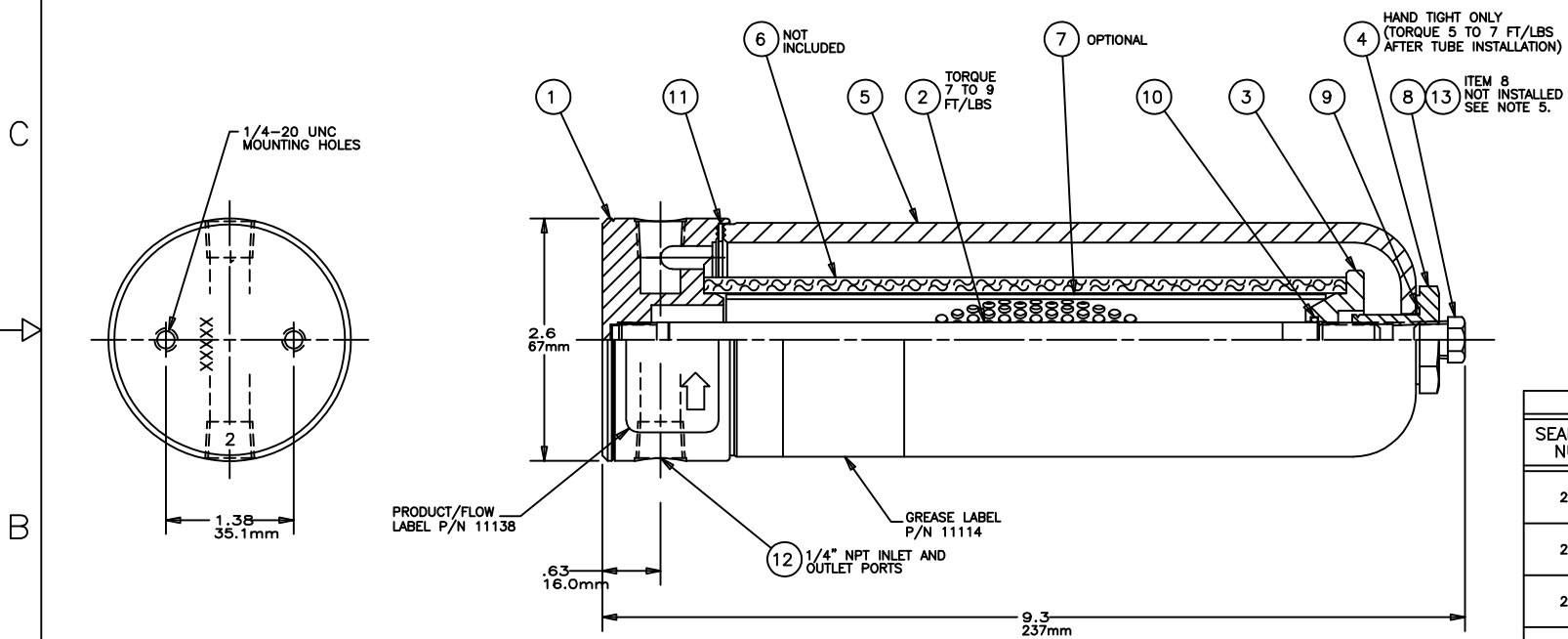
**LEGEND**

☒ = REPLACEABLE PARTS

☒ = OPTIONAL PARTS

□ = INDICATE FILTER GRADE (BX OR DX)

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
D		ADDED NOTE 6	J.D.	4/12
E		REVISED NOTES	J.D.	6/12
F		REVISED NOTES	J.D.	8/22



REPLACEMENT SEAL SETS				
SEAL SET NUMBER	MAT'L	CONSISTS OF		
		NO.	QTY	PART NO.
22959	EPR	9	1	22959-2
		10	1	22959-3
		11	1	22959-1
22957	BUTYL	9	1	22957-2
		10	1	22957-3
		11	1	22957-1
22956	TEFLON	9	1	22956-2
		10	1	22956-3
		11	1	22956-1
22955	VITON FOOD GRADE	9	1	22949-2
		10	1	22949-3
		11	1	22955-1
22954	SILICONE	9	1	22954-2
		10	1	22954-3
		11	1	22954-1
22951	BUNA	9	1	22950-2
		10	1	22950-3
		11	1	22951-1

- NOTES:**
- ALL O-RINGS TO BE LUBRICATED WITH APPROVED LUBRICANT ONLY.
  - HOUSING TO BE SHIPPED WITH PLASTIC THREAD PROTECTORS (ITEMS 12 & 13) INSTALLED.
  - PRESSURE RATING: 250 psig AT 200°F.
  - V GROOVE IDENTIFIES PARTS MADE FROM 316 SS.
  - ALL ASSEMBLY AND PACKAGING MUST BE PERFORMED IN ACCORDANCE WITH THE APPROPRIATE MANUFACTURING METHOD SHEET SPECIFIED FOR THIS ASSEMBLY.
  - DESIGNED IAW ASME VIII DIV 1 2021 ED.  
 MDMT: -20 F  
 HYDROTEST PRESSURE: 325 PSIG  
 CORROSION ALLOWANCE: 0  
 NDE: NONE  
 IMPACT TEST EXEMPT PER UHA-51(d)  
 PWHT: NONE

2023-01223

**ABSA**

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: OE15444 52

See acceptance letter for conditions of registration.

Date: 2023-05-08 By: *Samir Issa*

SAMIR ISSA, P. Eng.  
DOB: 04/02/1973

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

THIRD ANGLE PROJECTION

TOLERANCES EXCEPT AS NOTED

XX.XXmm ±.015  
 XXX.XXmm ±.005  
 XX.XXmm ±.13mm

ANGULAR ±1°

63 SURFACE ROUGHNESS OR BETTER

REMOVE ALL BURRS AND SHARP EDGES.

ENG. APVD.: DATE:

CHK'D BY: DATE:

DRAWN BY: DATE: PES 7/21/93

MAT'L: SEE PARTS LIST

**Parker Filtration**

Parker Hannifin Corporation  
 Filtration and Separation Division  
 Terryville, Massachusetts USA

**BALSTON**

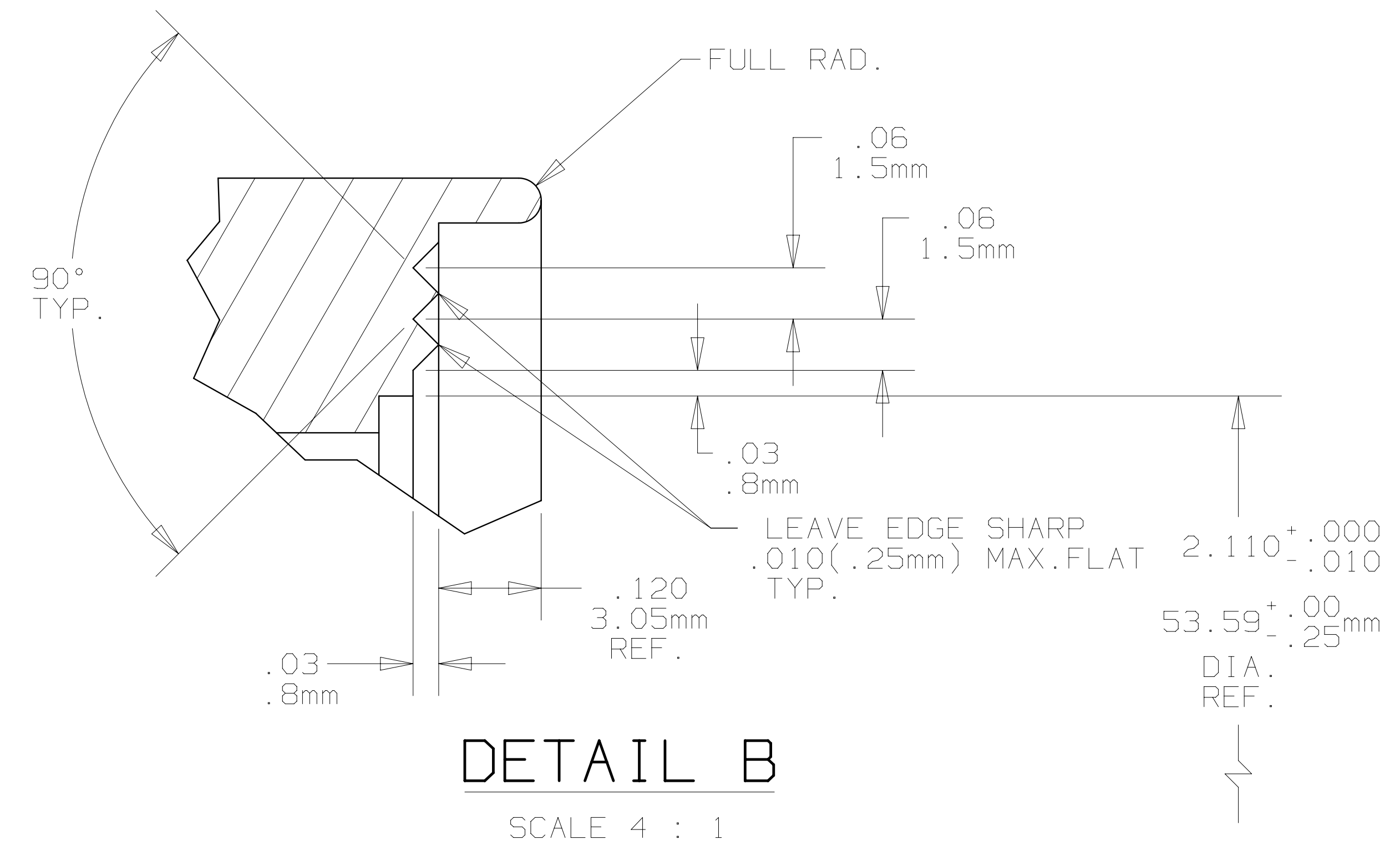
TITLE: FILTER HOUSING

MODEL NO.: 45S6-1/4

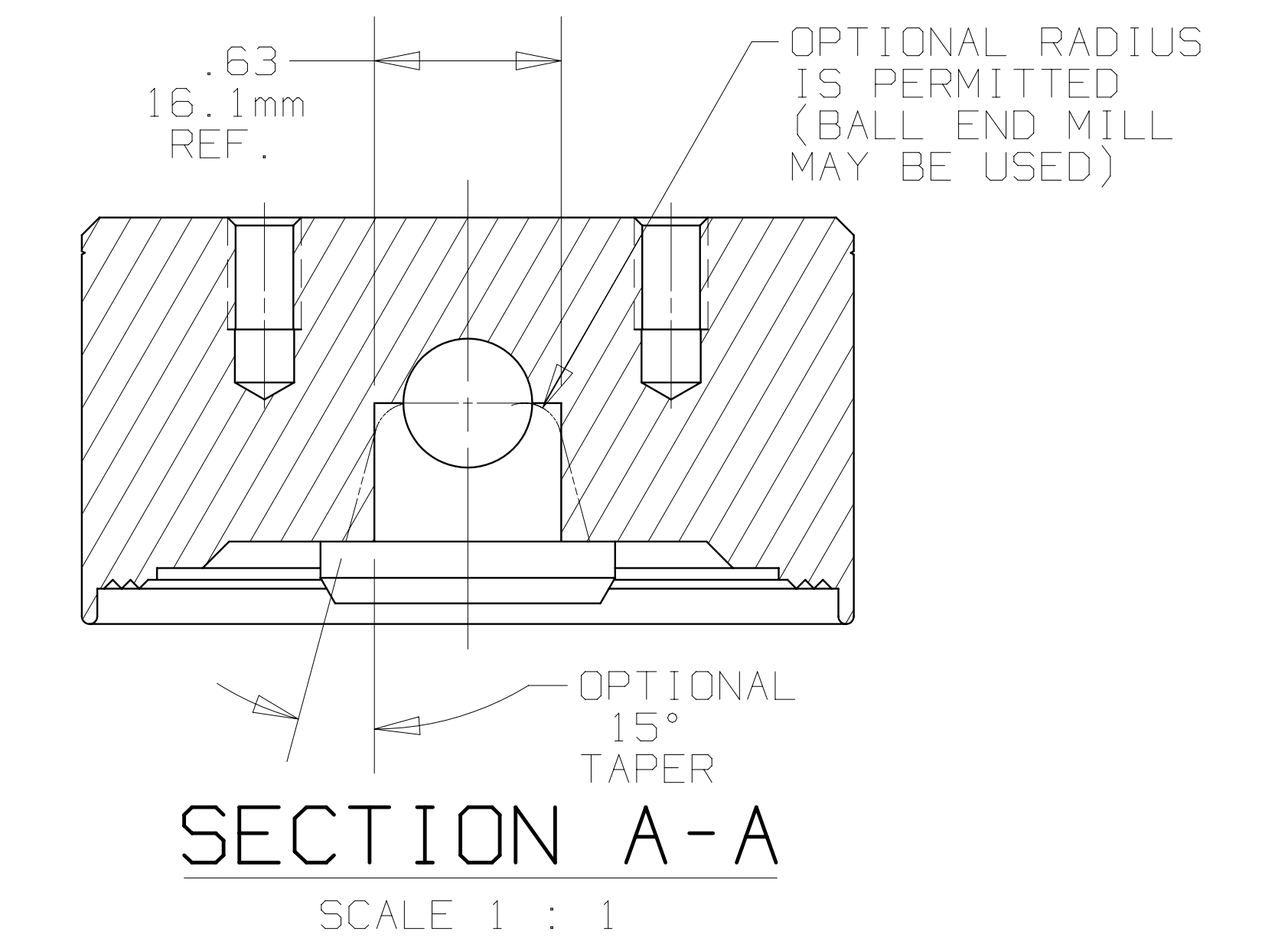
SCALE: 1 : 1 SHEET: 1 OF 1

P/N: 45S6-1/4 DWG.NO.: C-14794

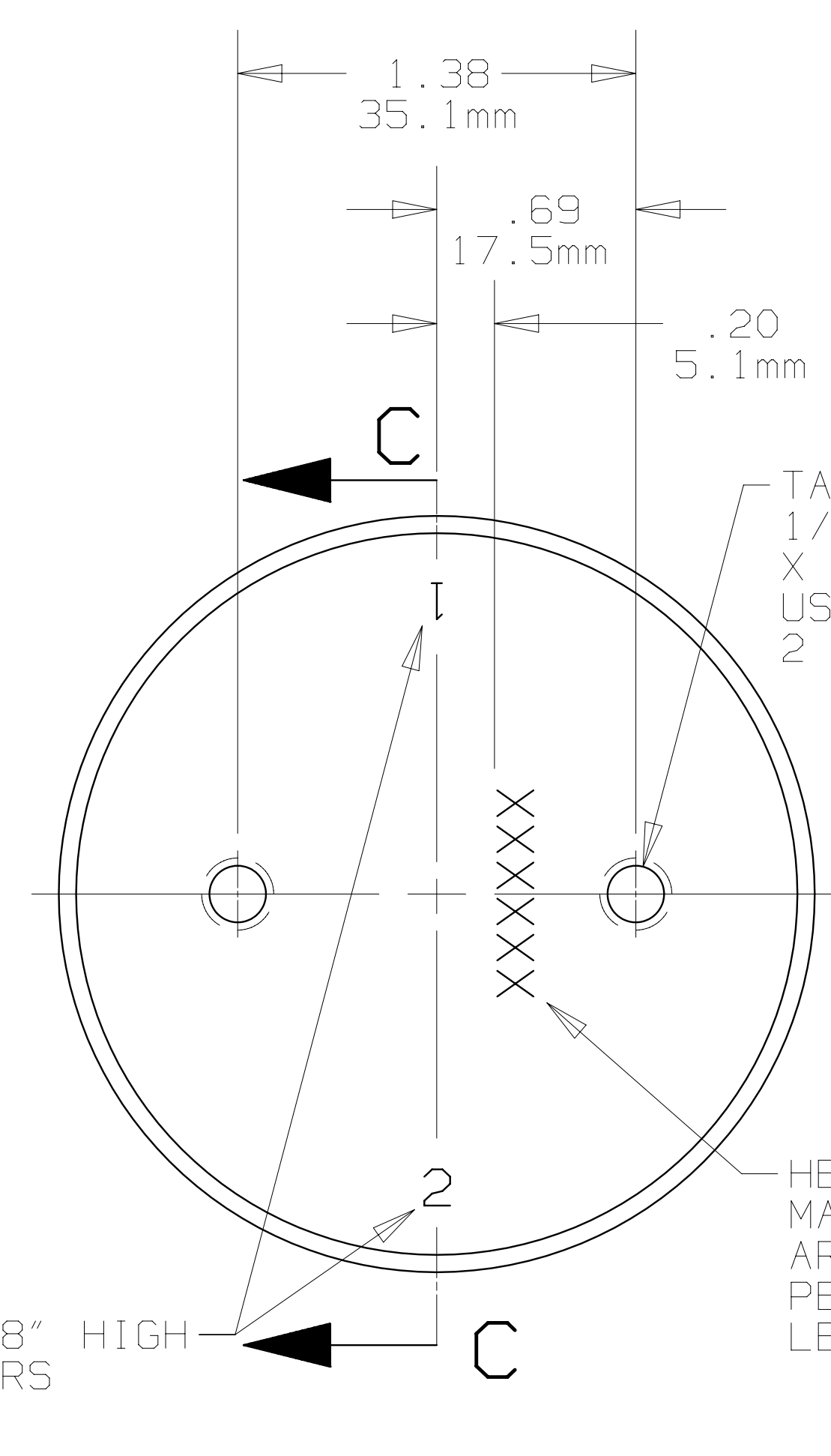
REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
L	1076	CHANGED PER ECN AND REDRAWN	PES	09/01
M		ADDED NOTE 2	J.D.	06/12



**DETAIL B**  
SCALE 4 : 1



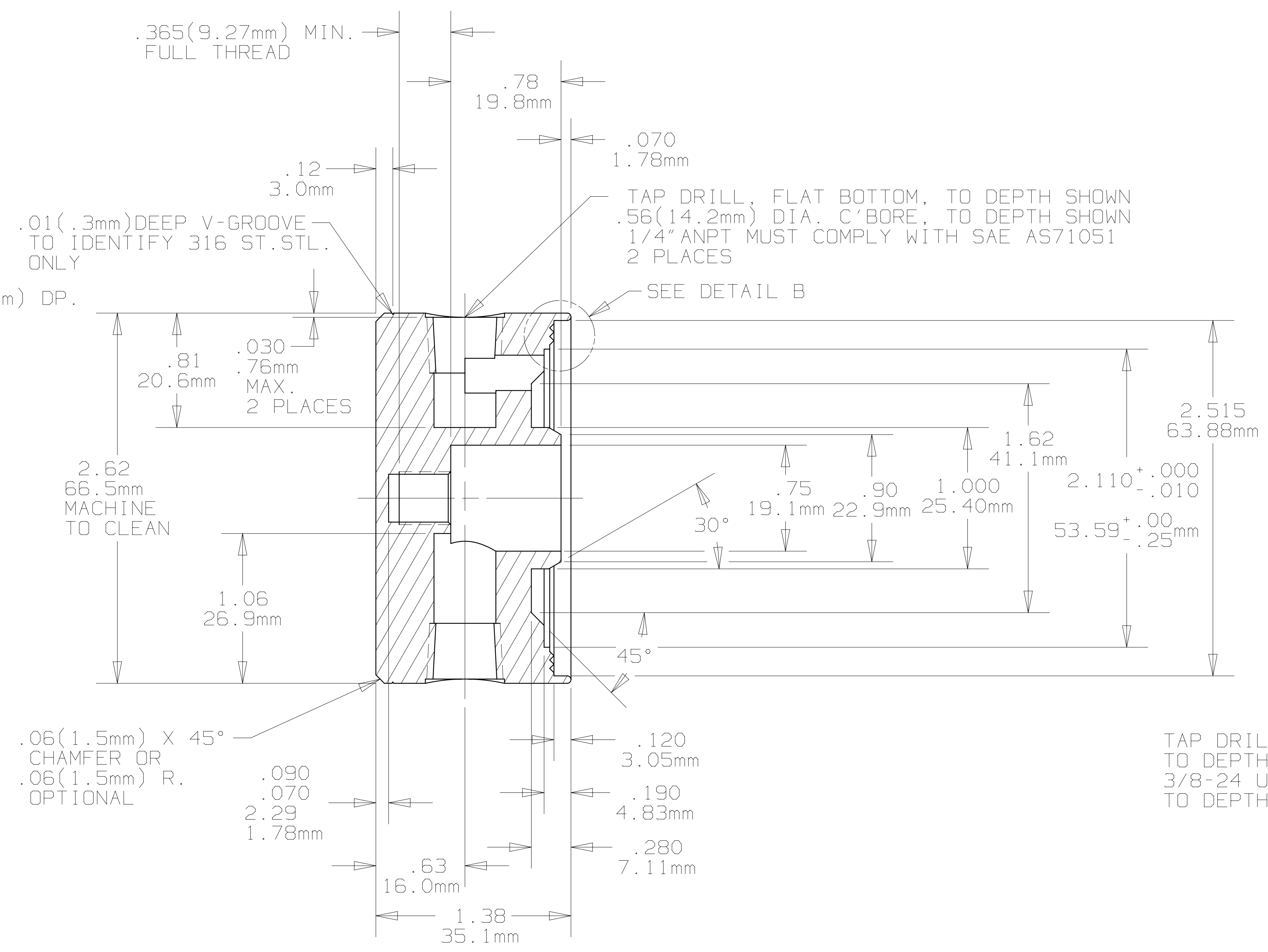
**SECTION A-A**  
SCALE 1 : 1



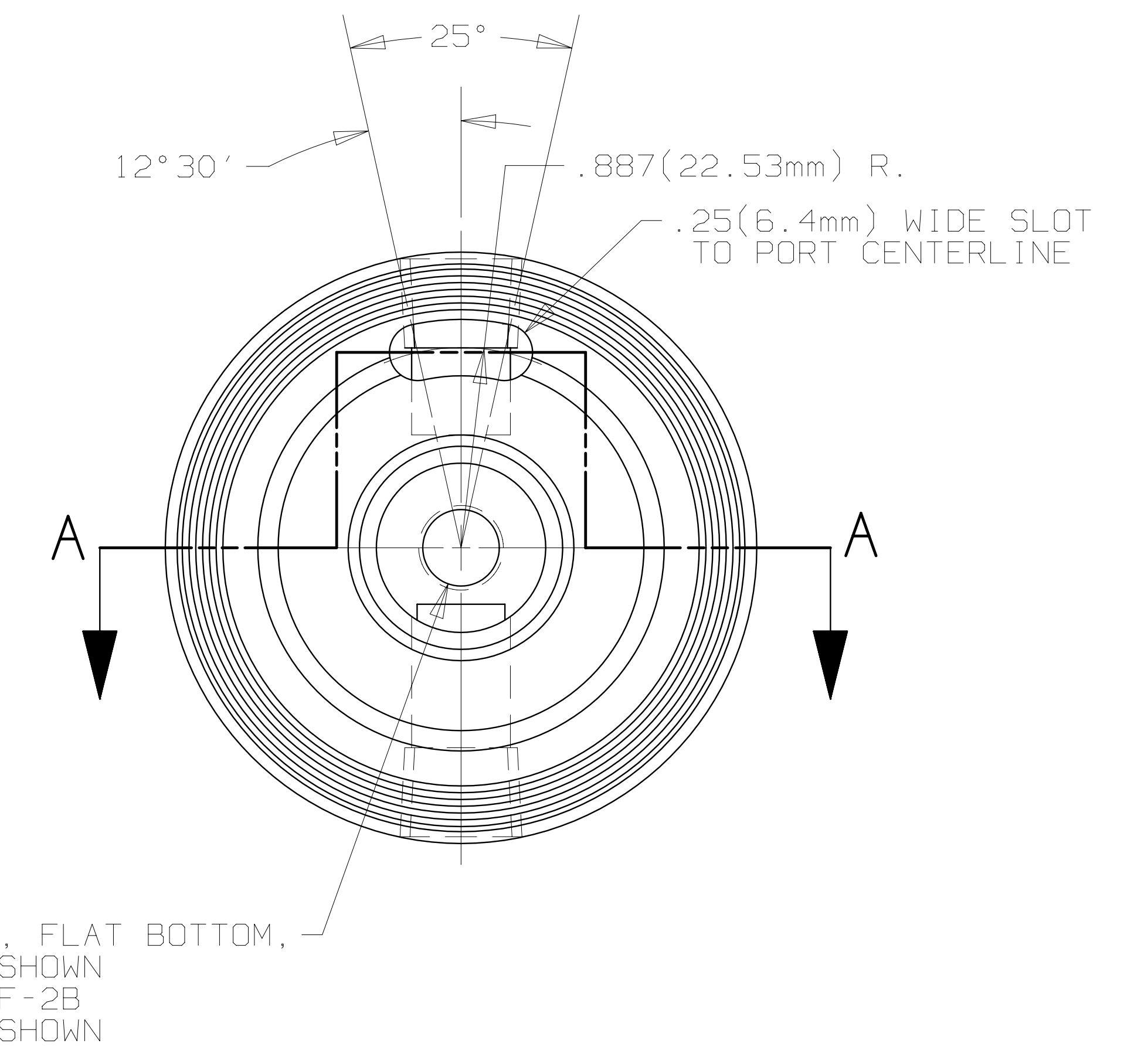
STAMP 1/8" HIGH CHARACTERS AS SHOWN

TAP DRILL .56(14.2mm) DP.  
1/4-20 UNC-2B  
X .38(9.7mm) MIN.  
USEABLE THREAD  
2 PLACES

HEAT NO. TO BE MARKED IN THIS AREA, MUST BE PERMANENT AND LEGIBLE



**SECTION C-C**  
SCALE 1 : 1



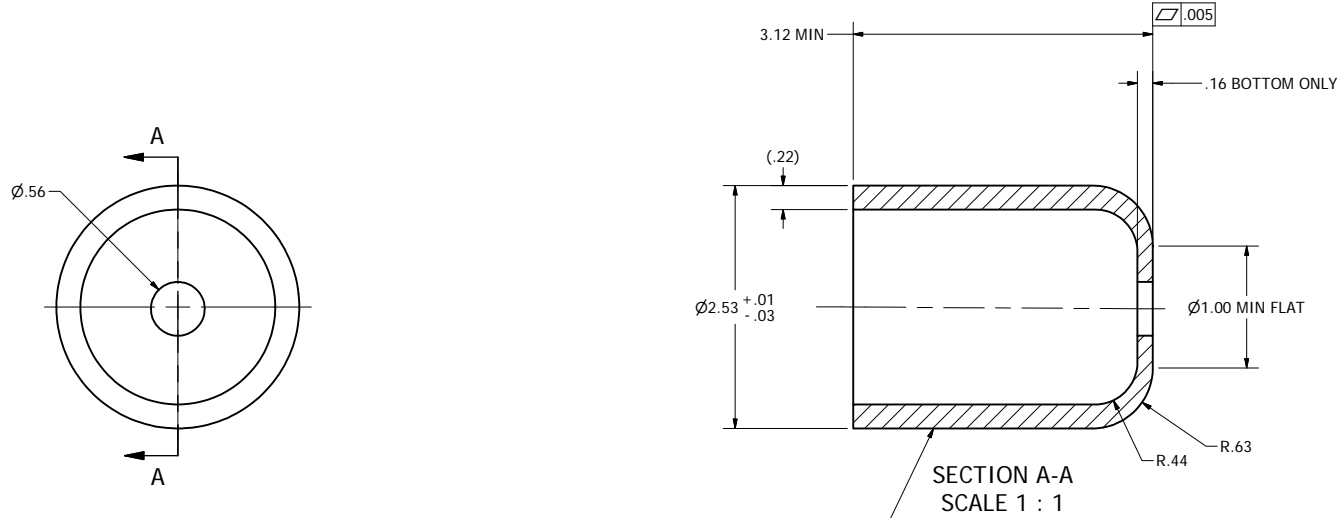
TAP DRILL, FLAT BOTTOM, TO DEPTH SHOWN  
3/8-24 UNF-2B  
TO DEPTH SHOWN

33165-1/4	ELECTROPOLISHED
33165-1/4-1	AS FABRICATED
PART NO.	DESCRIPTION

- NOTES:
- MATERIAL CERTIFICATION REQUIRED.
  - SA-479 TYPE 316

THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED		ENG. APVD.:	DATE:	Parker Hannifin Corporation Filtration and Separation Division Tewksbury, Massachusetts USA	
		.XX	±.015 X.Xmm ±.38mm	CHK'D BY:	DATE:	<b>Parker Filtration</b>	
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER FILTRATION AND SEPARATION DIVISION ("PARKER"). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.		.XXX	±.005 XX.XXmm ±.13mm	DRAWN BY:	DATE:	TITLE: <b>HEAD</b>	
		ANGULAR	±1°	B.R.	04/04/88	MODEL NO.:	
		63/	SURFACE ROUGHNESS OR BETTER	MAT'L:		33S6-1/4	
		REMOVE ALL BURRS AND SHARP EDGES.		316 STAINLESS STEEL	SEE NOTE 1.	SCALE: 1 : 1	
				FINISH:	SEE TABLE	SHEET: 1 OF 1	
				P/N:	SEE TABLE	DWG. NO.:	
						C-11734	

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
-	----	ORIGINATED FOR RELEASE	LRS	01/88
A	1857	REVISED PER ECN	CB	08/07
B		DELETED WELDED OPTION, REVISED NOTE 1	JD	06/12



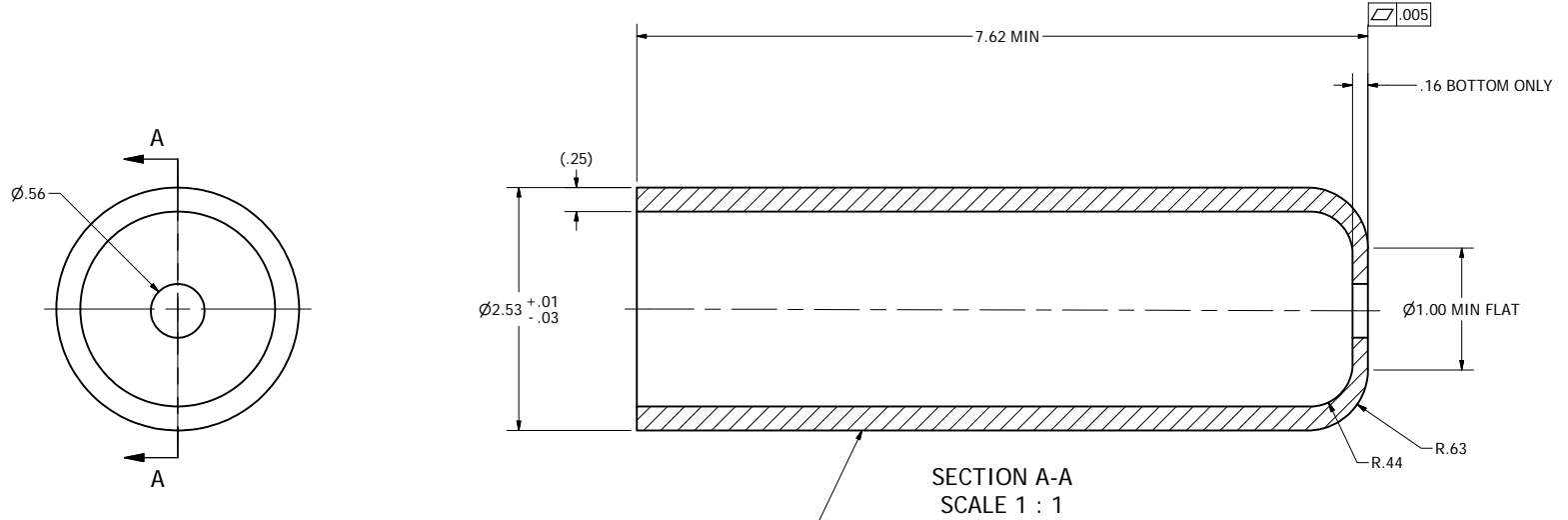
FINISH AND SHAPE TO BE AS DRAWN.  
SLIGHT TAPER PERMITTED.  
MUST BE FREE OF EXCESSIVE DRAW MARKS.

NOTES:

- MATERIAL: SA-240 316SS  
MILL CERTIFICATE TO BE SUPPLIED.

<p>THIRD ANGLE PROJECTION</p> <p>THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER FILTRATION AND SEPARATION DIVISION (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON DOCUMENT. ALL RIGHTS RESERVED.</p>	<p>TOLERANCES EXCEPT AS NOTED</p> <p>.XX ±.015 X.Xmm ±.38mm .XXX ±.005 XX.XXmm ±.13mm</p> <p>ANGULAR ±1° 63/ ✓ SURFACE ROUGHNESS OR BETTER</p> <p>REMOVE ALL BURRS AND SHARP EDGES</p>	<p>ENG. APVD.: DATE:</p>	<p>Parker Hannifin Corporation Filtration and Separation Division Haverhill, Massachusetts USA</p>
		<p>CHKD BY: DATE:</p>	
		<p>DRAWN BY: DATE: C.BERUBE 08/07</p>	<p>MODEL NO.: MODEL 45</p>
		<p>MATL: SEE NOTES</p>	<p>FINISH: AS DRAWN</p> <p>SCALE: SHEET: 1 OF 1</p>
		<p>PIN: 33160-2</p>	<p>DWG.NO.: C-12658</p>

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
-	----	ORIGINATED FOR RELEASE	PES	05/97
A	1657	REVISED PER ECN	CB	08/07
B		DELETED WELDED OPTION, REVISED NOTE 1	J.D.	06/12



FINISH AND SHAPE TO BE AS DRAWN.  
SLIGHT TAPER PERMITTED.  
MUST BE FREE OF EXCESSIVE DRAW MARKS.

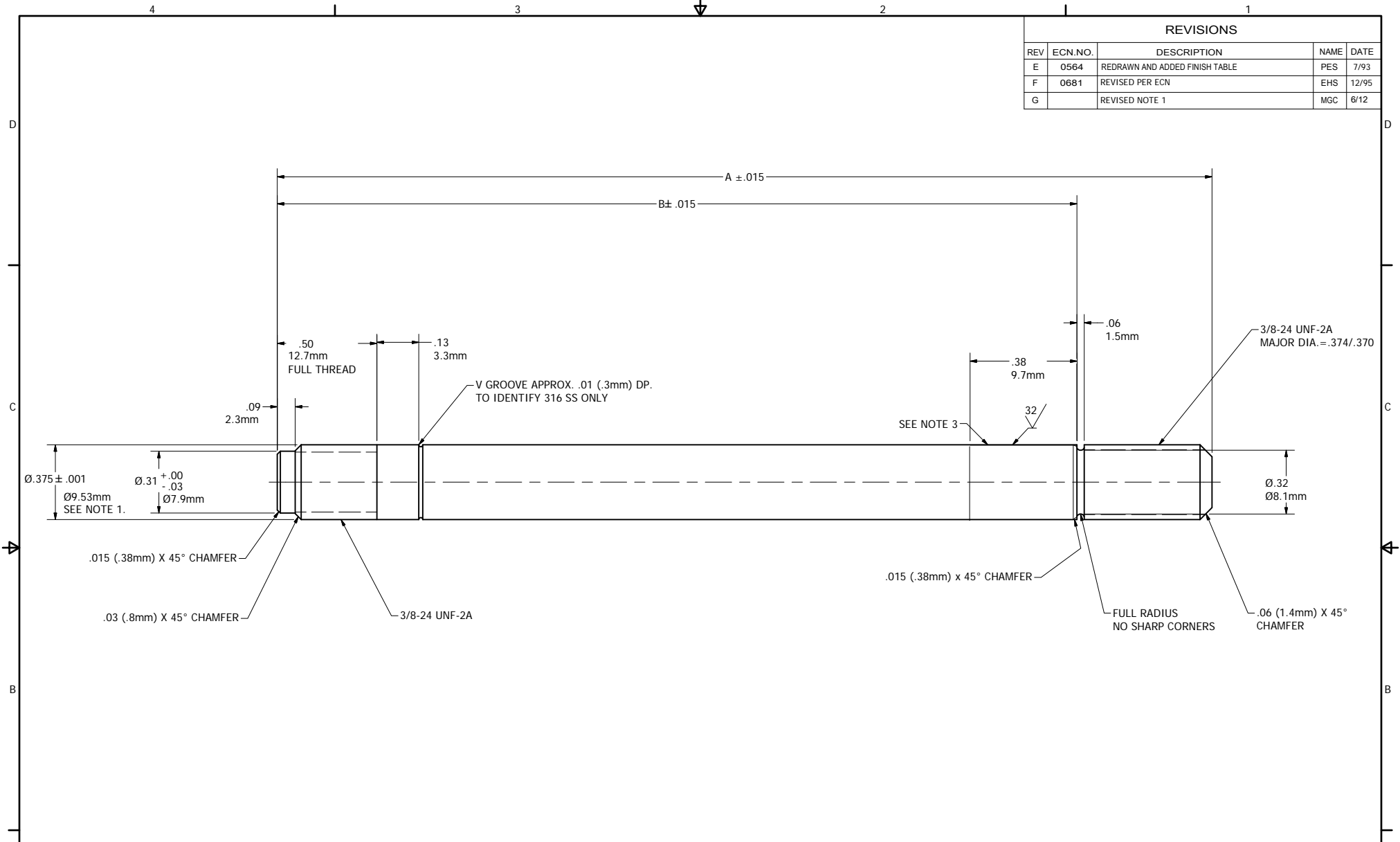
SECTION A-A  
SCALE 1 : 1

NOTES:

- MATERIAL: SA-240 316SS  
MILL CERTIFICATE TO BE SUPPLIED

<p>THIRD ANGLE PROJECTION</p> <p>THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER FILTRATION AND SEPARATION DIVISION (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON DOCUMENT. ALL RIGHTS RESERVED.</p>	<p>TOLERANCES EXCEPT AS NOTED</p> <p>.XX ±.015 X.Xmm ±.38mm .XXX ±.005 XX.XXmm ±.13mm</p> <p>ANGULAR ±1° 63/ ✓ SURFACE ROUGHNESS OR BETTER</p> <p>REMOVE ALL BURRS AND SHARP EDGES</p>	<p>ENG. APVD.: DATE:</p>	<p><b>Parker</b> <b>Balston</b></p> <p>Parker Hannifin Corporation Filtration and Separation Division Haverhill, Massachusetts USA</p>
		<p>CHKD BY: DATE:</p>	
		<p>DRAWN BY: DATE: C. BERUBE 08/07</p>	<p>MODEL NO.: MODEL 45</p>
		<p>MATL: SEE NOTES</p>	<p>FINISH: AS DRAWN</p>
			<p>SHEET: 1 OF 1</p>
			<p>PIN: 45160-2</p>
			<p>DWG.NO.: C-12659</p>


REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
E	0564	REDRAWN AND ADDED FINISH TABLE	PES	7/93
F	0681	REVISED PER ECN	EHS	12/95
G		REVISED NOTE 1	MGC	6/12



NOTES:

1. MATERIAL: SA-479 316. COLD DRAWN, TURNED, GROUND AND POLISHED ROUND BAR STOCK (DO NOT ANNEAL).
2. REMOVE ALL BURRS AND SHARP EDGES.
3. .38 (9.7mm) AREA INDICATED MUST HAVE A 32 RMS OR BETTER SURFACE FINISH.
4. MATERIAL CERTIFICATION MUST BE SUPPLIED WITH EACH SHIPMENT.

45962	8.324 (211.43mm)	7.664 (194.67mm)	45G, 45S6
33962	3.834 (97.38mm)	3.174 (80.62mm)	33G, 33S6
PART NO.	DIM. A	DIM. B	WHERE USED

<b>THIRD ANGLE PROJECTION</b>  <small>THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER FILTRATION AND SEPARATION DIVISION (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON DOCUMENT. ALL RIGHTS RESERVED.</small>	<b>TOLERANCES EXCEPT AS NOTED</b> .XX ±.015 X.Xmm ±.38mm .XXX ±.005 XX.XXmm ±.13mm  ANGULAR ±1° 63/ SURFACE ROUGHNESS OR BETTER	ENG. APVD.: DATE: CHKD BY: DATE: DRAWN BY: DATE: <b>J. K. 2/26/85</b> MATL:	<b>Parker</b> <small>Edlston</small> Parker Hannifin Corporation Filtration and Separation Division Haverhill, Massachusetts USA	
		<b>SEE NOTES 1, 4</b>	<b>TIE ROD</b> FINISH: ----- MODEL NO.: SEE TABLE SCALE: 2:1 SHEET: 1 OF 1 PIN: SEE TABLE DWG.NO.: B-11729	
<b>REMOVE ALL BURRS AND SHARP EDGES</b>				

4

3

2

1

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
F		ADDED MATERIAL SPEC.	JD	6/12

D

D

C

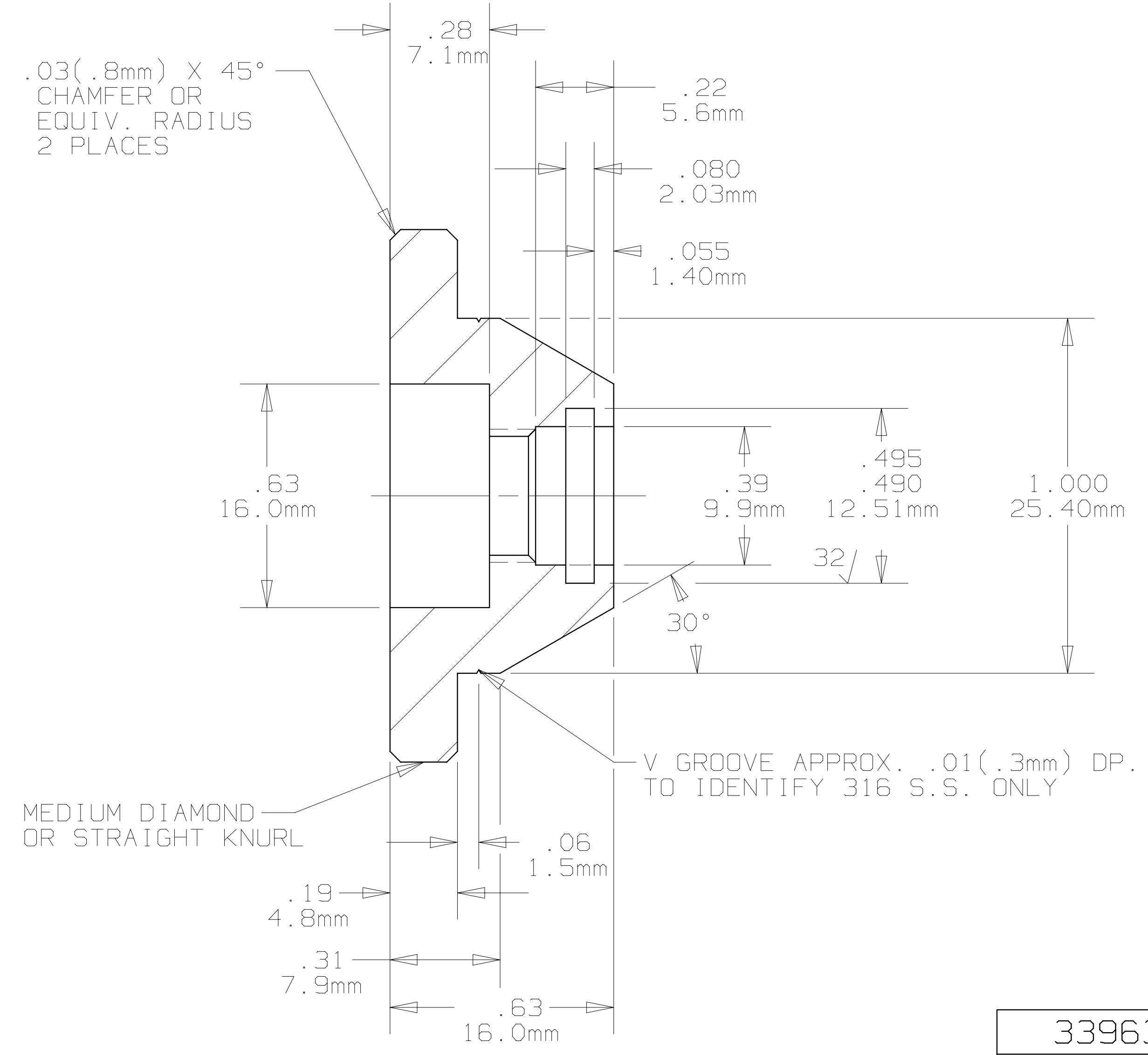
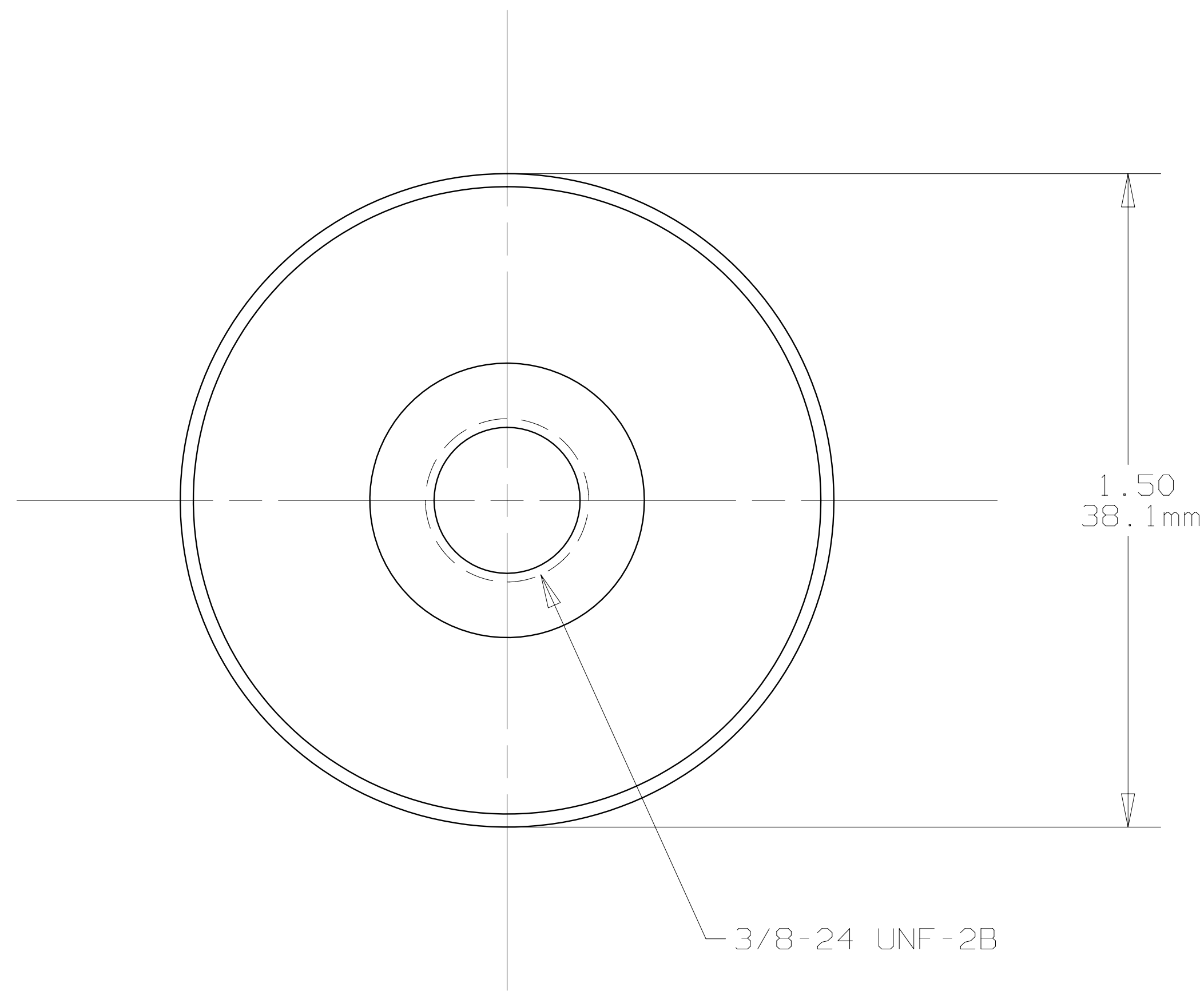
C

B

B

A

A



33963	ELECTROPOLISHED
33963-1	AS MACHINED
PART NO.	DESCRIPTION

THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED	ENG. APVD.:	DATE:		
	.XX ±.015 X.Xmm ±.38mm	CH'KD BY:	DATE:	TITLE: ELEMENT RETAINER	
<p>THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER FILTRATION AND SEPARATION DIVISION ("PARKER"). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER. YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.</p>	.XXX ±.005 XX.XXmm ±.13mm	DRAWN BY:	DATE:	FINISH: SEE TABLE	
	ANGULAR ±1°	J.K.	2/27/85	MODEL NO.: 33 & 45	
	63/ SURFACE ROUGHNESS OR BETTER	MAT'L: SA-479 316SS	P/N: SEE TABLE		SCALE: 2 : 1
REMOVE ALL BURRS AND SHARP EDGES.		DWG. NO.: B-11730			

4

3

2

1



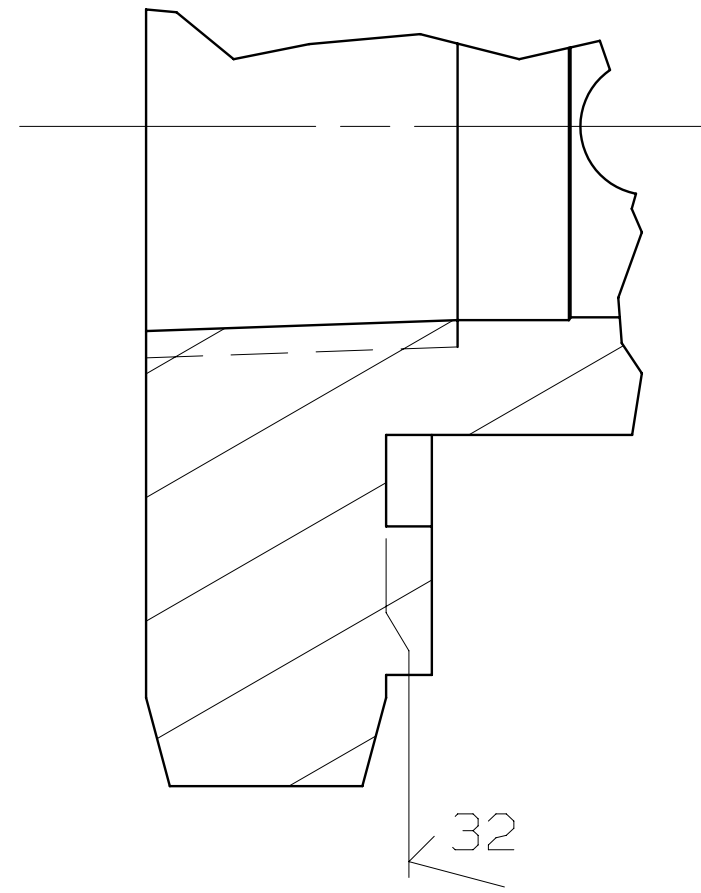
4

3

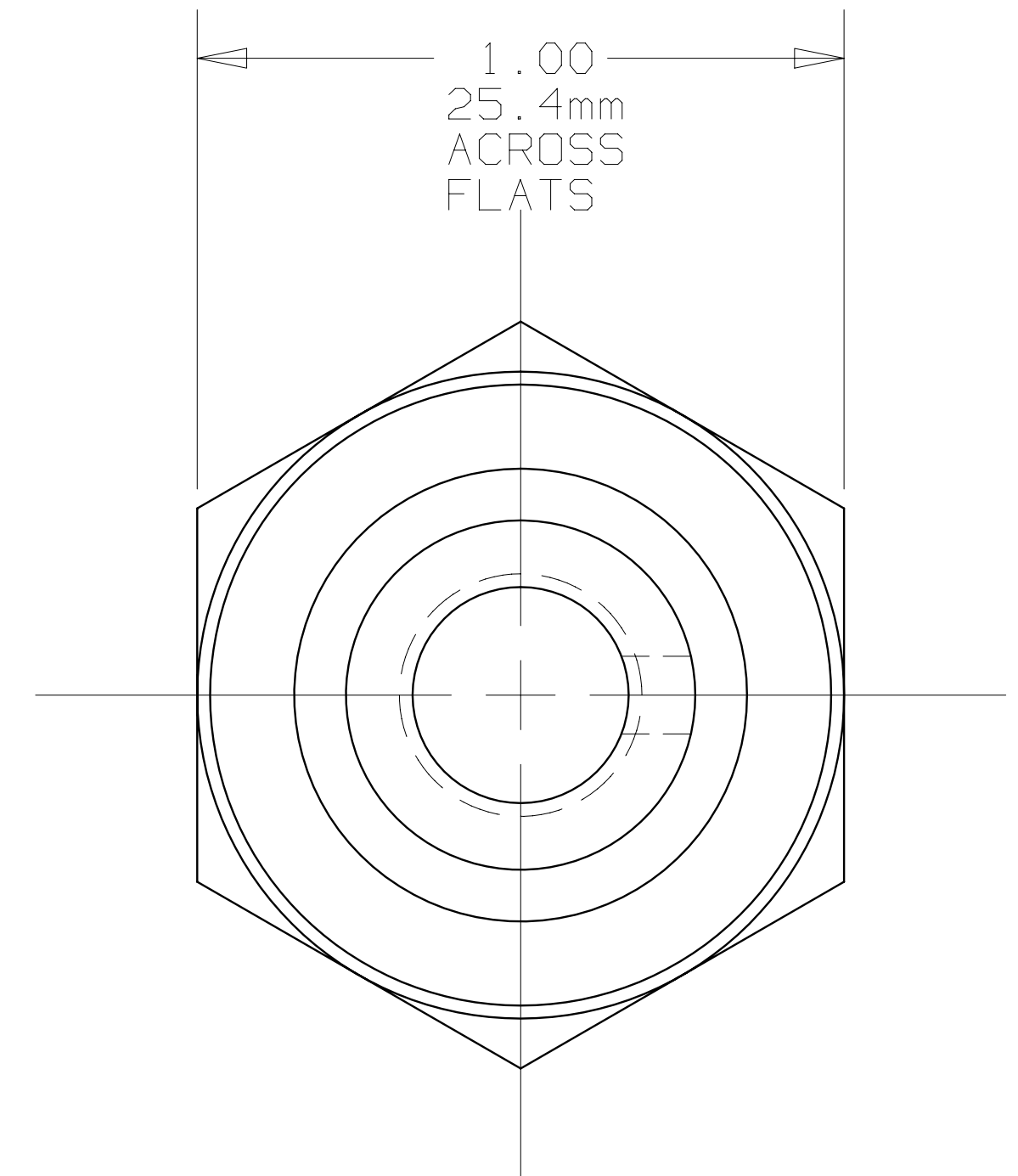
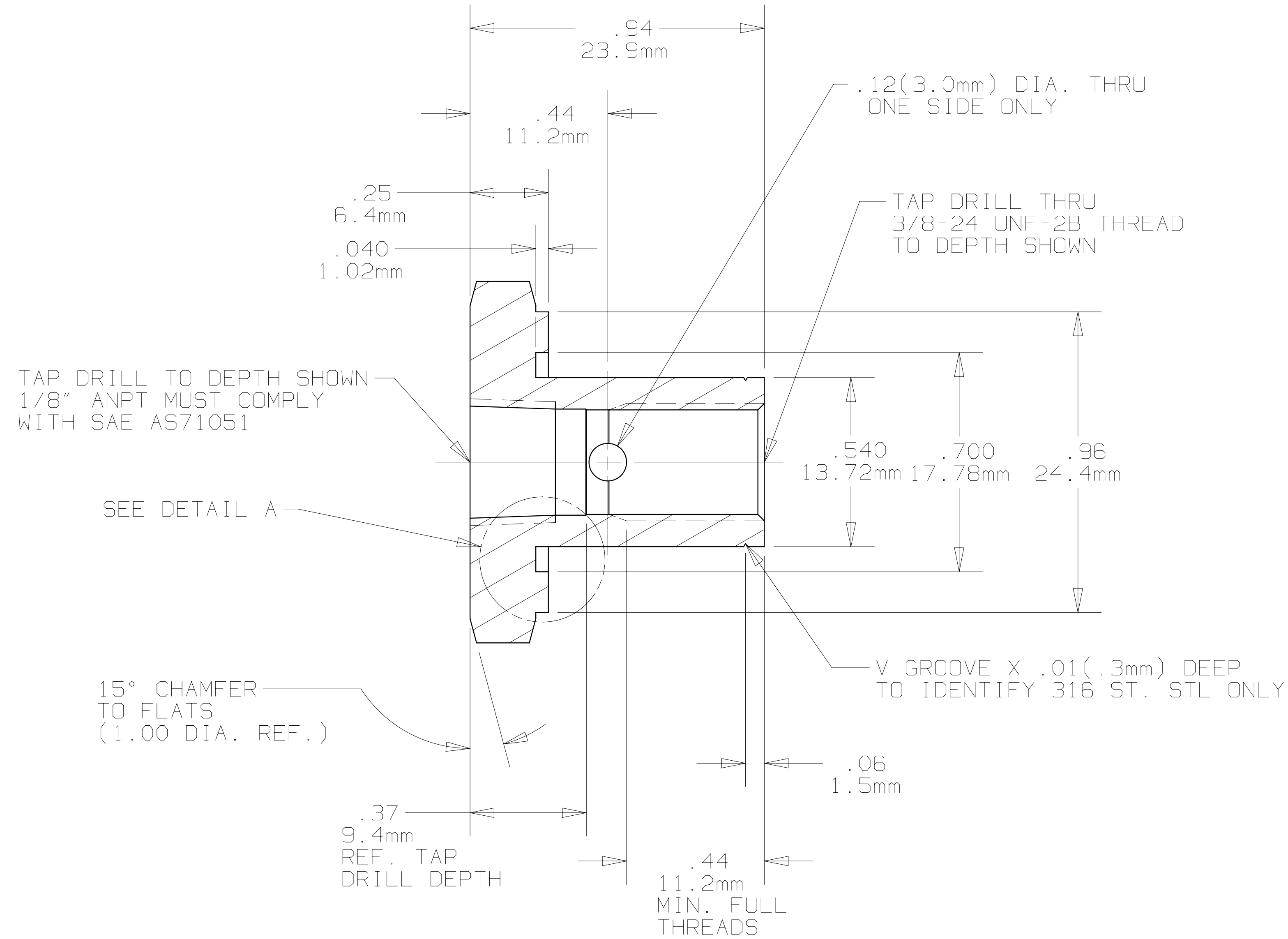
2

1

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
E	1076	CHANGE PER ECN	PES	9/01
F		REVISED NOTE 1	J.D.	6/12



**DETAIL A**  
SCALE 3 : 1



33267	ELECTROPOLISHED
33267-1	AS FABRICATED
PART NO.	DESCRIPTION

NOTES:

1. SA-479 TYPE 316, MATERIAL CERTIFICATION REQUIRED.

THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED	ENG. APVD.:	DATE:	 <small>Parker Hannifin Corporation Filtration and Separation Division Tewksbury, Massachusetts USA</small> 	
	.XX ±.015 X.Xmm ±.38mm  .XXX ±.005 XX.XXmm ±.13mm  ANGULAR ±1° 63/√ SURFACE ROUGHNESS OR BETTER	CH'KD BY:	DATE:		
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER FILTRATION AND SEPARATION DIVISION ("PARKER"). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.	REMOVE ALL BURRS AND SHARP EDGES.	DRAWN BY:	DATE:	TITLE:	
		316 ST. STL. SEE NOTE 1.	REDRAWN 8/31/94	TIIENUT	
		FINISH:	MODEL NO.:	SCALE:	SHEET:
		SEE TABLE	33 & 45	2 : 1	1 OF 1
		P/N:	DWG. NO.:	SEE TABLE	B-11731

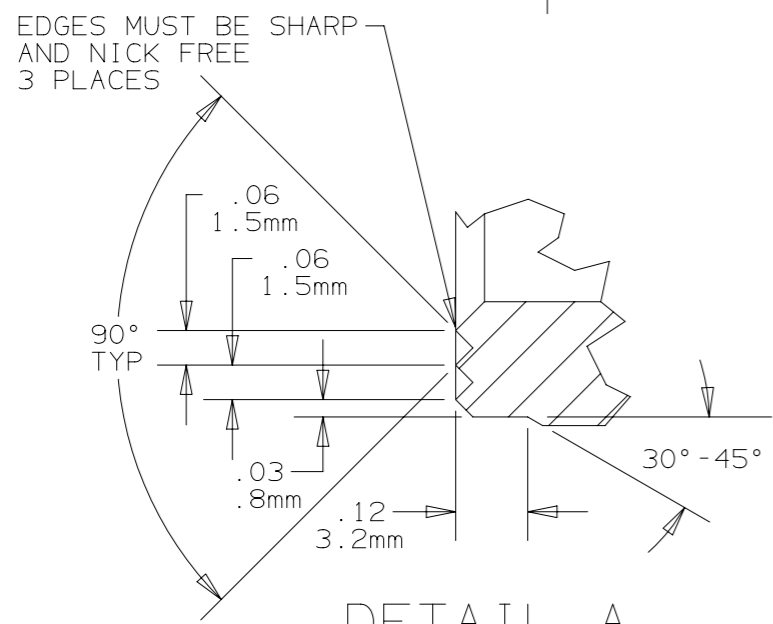
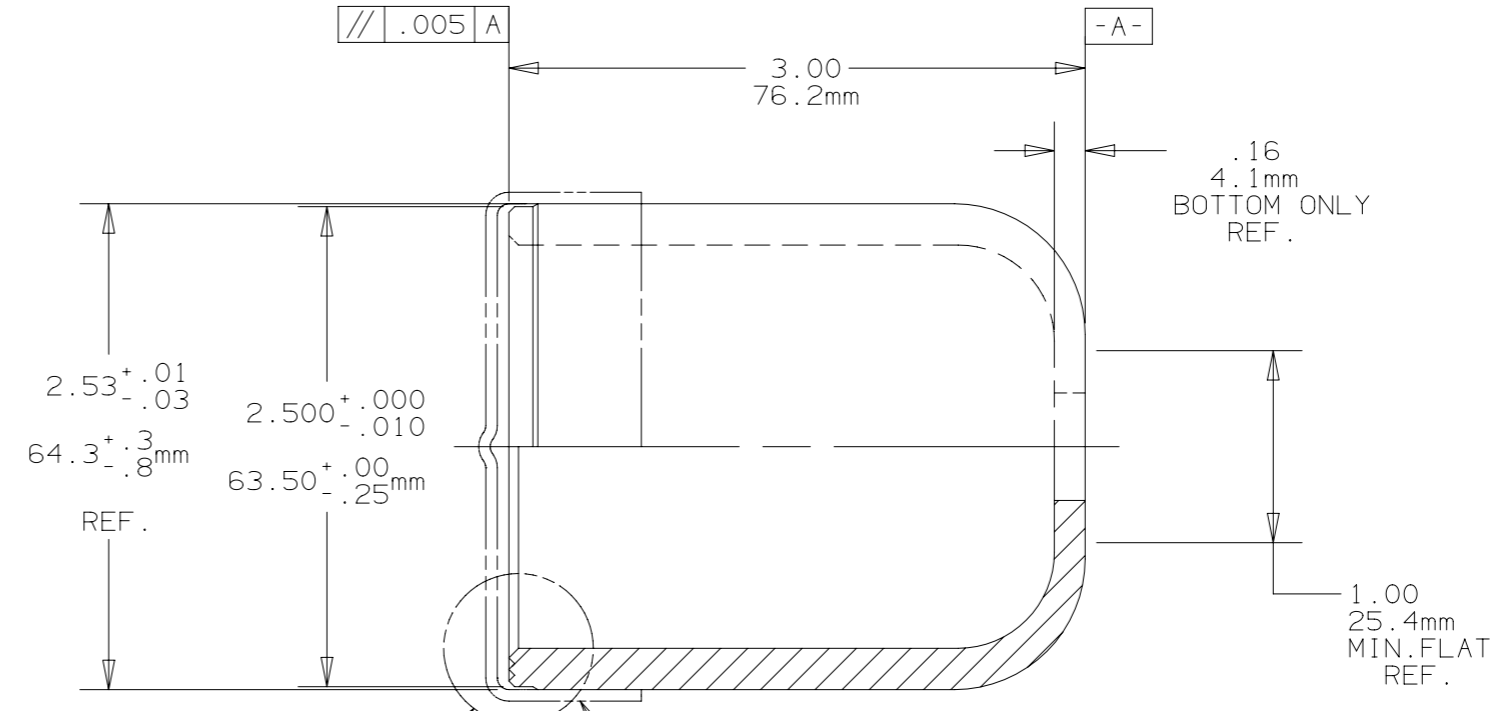
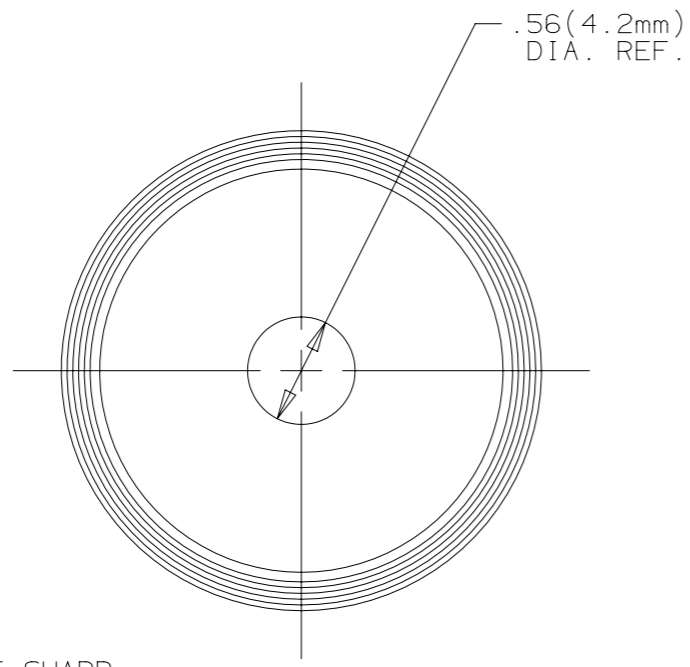
4

3

2

1

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
A	0564	NOTE 2. REMOVE ALL PROCESS OILS	R.B.	6/93
B	0909	REVISED PER ECN	EHS.	3/99
C	1657	REVISED PER ECN	CB	08/07



DETAIL A  
SCALE = 3 : 1

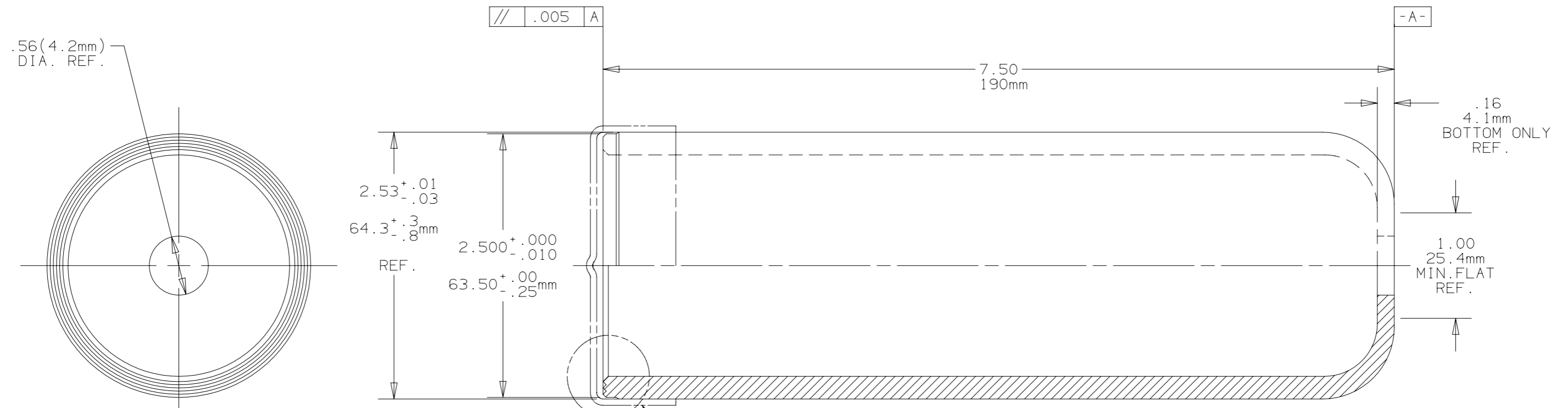
- NOTES:
1. REMOVE ALL PROCESS OILS AND CONTAMINATION.
  2. ALTERNATE METHODS FOR SURFACE PROTECTION MUST BE APPROVED BY PARKER PRIOR TO IMPLEMENTATION BY VENDOR.
  3. MATERIAL CERTIFICATION REQUIRED.

33160	BUFFED TO A HIGH LUSTRE
33160-1	AS MACHINED & ELECTROPOLISHED
PART NO.	DESCRIPTION

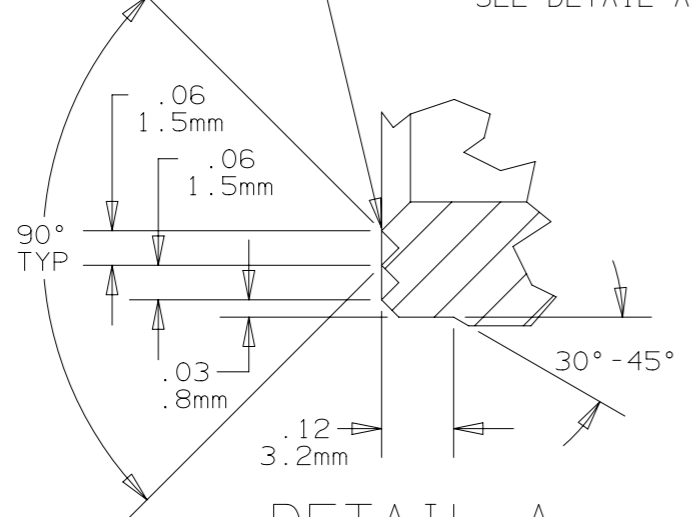
SEE NOTES 1 & 2-

THIRD ANGLE PROJECTION 	TOLERANCES EXCEPT AS NOTED .XX ±.015 X.Xmm ±.38mm .XXX ±.005 XX.XXmm ±.13mm ANGULAR ±1° 63/ SURFACE ROUGHNESS OR BETTER	ENG. APVD.: DATE: CH'KD BY: DATE: DRAWN BY: DATE: LRS 1-12-88 MAT'L: MAKE FROM P/N 33160-2 DWG NO. C-12658	  Parker Hannifin Corporation Filtration and Separation Division Tewksbury, Massachusetts USA TITLE: <b>FILTER BOWL</b> FINISH: SEE TABLE P/N: SEE TABLE MODEL NO.: <b>MODEL 33</b> SCALE: 1 : 1 SHEET: 1 OF 1 DWG.NO.: B-12651
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER FILTRATION AND SEPARATION DIVISION ("PARKER"). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.		REMOVE ALL BURRS AND SHARP EDGES.	

REVISIONS				
REV	ECN.NO.	DESCRIPTION	NAME	DATE
A	0512	HIGH LUSTRE WAS ELECTROPOLISH	MJB	11/6
B	0564	ADDED NOTE 2	RCB	5/88
C	0909	REVISED PER ECN	EHS	3/99



EDGES MUST BE SHARP AND NICK FREE 3 PLACES



**DETAIL A**  
SCALE = 3 : 1

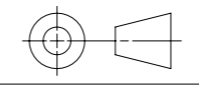
P/N 21233 PROTECTIVE CAP (SUPPLIED BY PARKER) MUST BE INSTALLED BEFORE SHIPPING SEE NOTE 2.

PART NO.	DESCRIPTION
45160	BUFFED TO A HIGH LUSTRE
45160-1	AS MACHINED & ELECTROPOLISHED

SEE NOTES 1 & 2-

- NOTES:
- REMOVE ALL PROCESS OILS AND CONTAMINATION.
  - ALTERNATE METHODS FOR SURFACE PROTECTION MUST BE APPROVED BY PARKER PRIOR TO IMPLEMENTATION BY VENDOR.

THIRD ANGLE PROJECTION



THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER FILTRATION AND SEPARATION DIVISION ("PARKER"). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.

TOLERANCES EXCEPT AS NOTED

.XX	±.015
X.Xmm	±.38mm
.XXX	±.005
XX.XXmm	±.13mm
ANGULAR	±1°
63/	SURFACE ROUGHNESS OR BETTER

REMOVE ALL BURRS AND SHARP EDGES.

ENG. APVD.: DATE:

CH'KD BY: DATE:

DRAWN BY: DATE:  
LRS 1-12-88

MAT'L:

MAKE FROM  
P/N 45160-2  
(DWG. NO. C-12659)



Parker Hannifin Corporation  
Filtration and Separation Division  
Haverhill, Massachusetts USA



TITLE: **FILTER BOWL**

FINISH: SEE TABLE  
P/N: SEE TABLE

MODEL NO.: MODEL 45  
SCALE: 1 : 1  
SHEET: 1 OF 1  
DWG. NO.: B-12652