

October 31, 2022

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

The design submission, tracking number 2022-05858, originally received on October 18, 2022 was surveyed and accepted for registration as follows:

**CRN :** 0E07432.12 **Accepted on:** October 31, 2022  
**Reg Type:** NEW DESIGN **Expiry Date:** April 29, 2032  
**Drawing No. :** 180VP FILTER - SCOPE OF CRN REGISTRATION As Noted  
**Fitting type:** NPT: 1/4", 1/2", 3/4", 1" FILTERS  
Design registered in the name of : HEADLINE FILTERS LTD

Description	MAWP	Design Temperature	MDMT
Internal Pressure	32405kPa	204 °C	-196 °C

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

- The acceptance is based on the understanding and condition that dual certified material shall be used in construction.
- As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction is ASME B31.3. 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 3369 or fax (780) 437-7787 or e-mail Radisavljevic@absa.ca.

Sincerely,



RADISAVLJEVIC, ZANA, P. Tech. (Eng.)  
DOP Cert. No. D00003136

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

I, Scott Hardiman, Works Manager  
(name of applicant) (position title) (must be in a position of authority)  
of Headline Filters Limited  
(name of manufacturer)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



located at Mill Hall Business Estate, Aylesford, ME20 7JZ, United Kingdom  
(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 ASME B31.3 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 \_\_\_\_\_ 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.	E - Filters	ISO 9001:2015	Design, Manufacture, Supply	2023-05-26	BSI	Aylesford, United Kingdom
2.						

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

SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

*[Signature]*

(Signature of the Declarer)

28th February 2022

(Date)

DECLARED before me at Maidstone in the County of Kent  
(city) (province, territory, or state)

this 28th day of February, 2022  
(Month) (Year)

(print) Alexander Gwilum Astley  
(a Commissioner of Oaths or Notary Public)

Alexander Gwilum Astley  
16 Mill Street  
Maidstone, Kent. ME15 6XT  
Tel: 01622 678341  
Notary Public

(sign) *[Signature]*  
(a Commissioner of Oaths or Notary Public)

At Death  
(expiry date (mm/dd/yy))



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

**For ABSA Office Use Only:**

NOTES: \_\_\_\_\_

<p>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 <u>E</u>.</p> <p>CRN: <u>0E07432.12</u></p> <p>Registered Date: <u>2022-10-31</u></p> <p>Expiry Date: <u>2032-04-29</u></p> <p>Signature: _____ (Signature of the Administrator/SCO)</p> <p>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</p>	<div style="border: 2px solid red; padding: 5px;"> <p>2022-05858</p> <p style="text-align: center;"><b>ABSA</b></p> <p style="text-align: center;">SAFETY CODES ACT - PROVINCE OF ALBERTA</p> <p style="text-align: center;"><b>ACCEPTED: 0E07432 12</b></p> <p style="text-align: center;"><b>See acceptance letter for conditions of registration.</b></p> <p>Date: <b>2022-10-31</b> By: <i>Zana Radisavljevic</i></p> <p style="text-align: right;"><b>ZANA RADISAVLJEVIC, P. Tech. (Eng.)</b> DOP: D00003136</p> </div> <p>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.</p>
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**HEADLINE FILTERS LTD**

UNIT 1-2 MILL HALL BUSINESS ESTATE  
 AYLESFORD, KENT  
 ME20 7JZ, UNITED KINGDOM



15-Apr-22

PAGE 1 OF 1

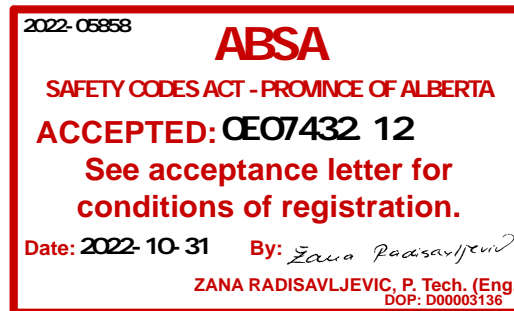
**SCOPE OF CRN REGISTRATION**

Product Description	GA Drawings	Design Code	Material Specification	Process Connections	MAWP at MAWT (psig at °F)	MDMT	Report Number
180VP Filter	HF4/4642, HF4/4607, HF4/4650, HF4/4616	ASME B31.3	Stainless Steel ASTM A479-316/316L, ASTM A182-F316/F316L	NPT: 1/4", 1/2", 3/4", 1" SAE: 4 ,6 ,8 ,12, 16	4700 psig at 400°F/ 324 barg at 204°C	-320°F / -196°C	R-1473 Rev. 0

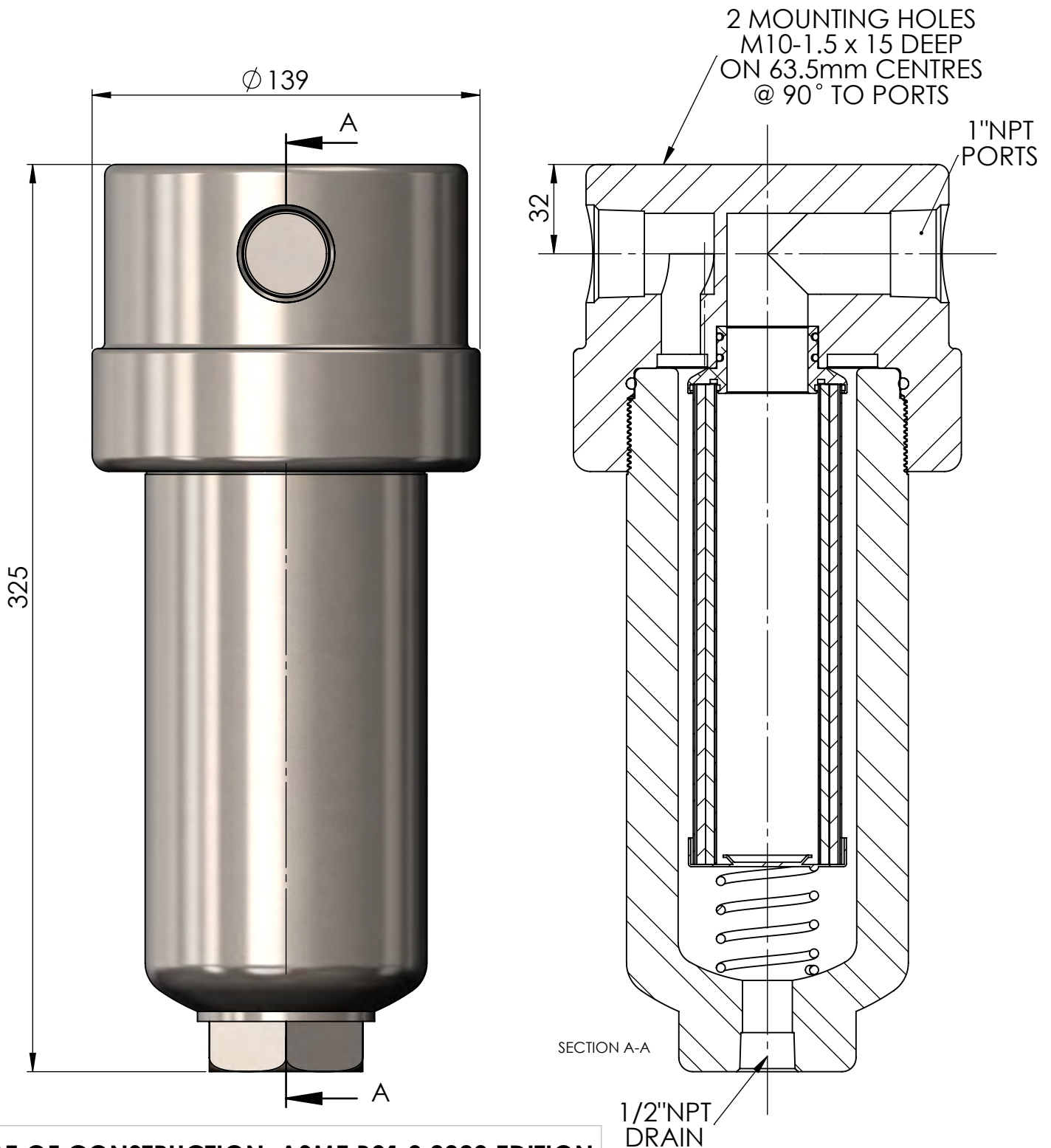
**Note 1:** MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature

**Note 2:** The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP may be limited by the seat or seal material or other considerations. Please consult Headline Filters literature.

**Note 3:** For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.




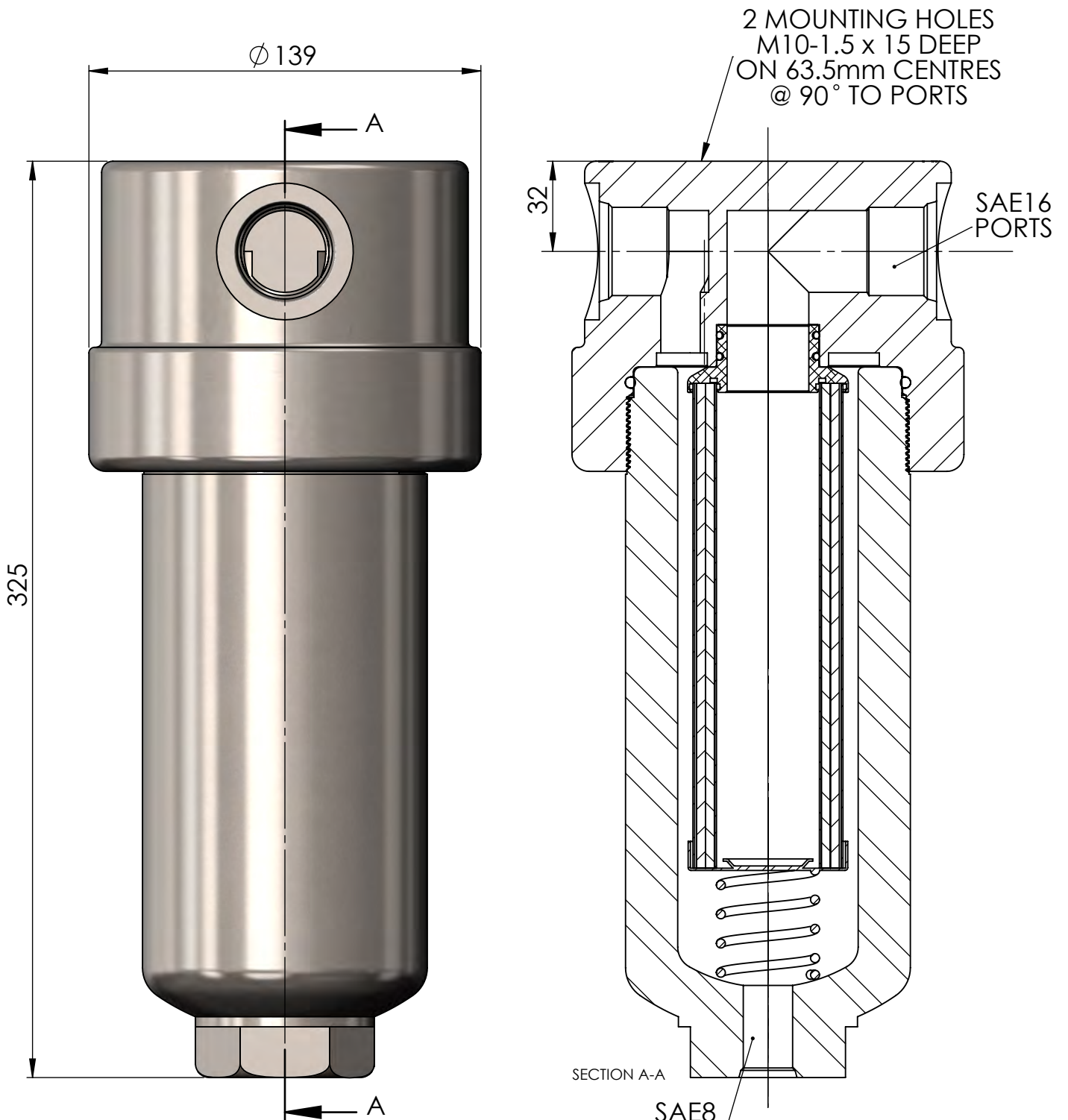
This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.




**CODE OF CONSTRUCTION: ASME B31.3 2020 EDITION**  
**MAWP: 5511 PSI (380 Bar)**  
**MDMT: -320 °F @ 5511PSI (-196 ° @ 380 BAR)**  
**HYDROTEST PRESSURE: 8267 PSI (570 BAR)**  
**CORROSION ALLOWANCE: 0**  
**IMPACT TEST EXEMPT PER 323.2.2**  
**MAX TEMP: 400 °F (200C)**  
**RT: NONE**

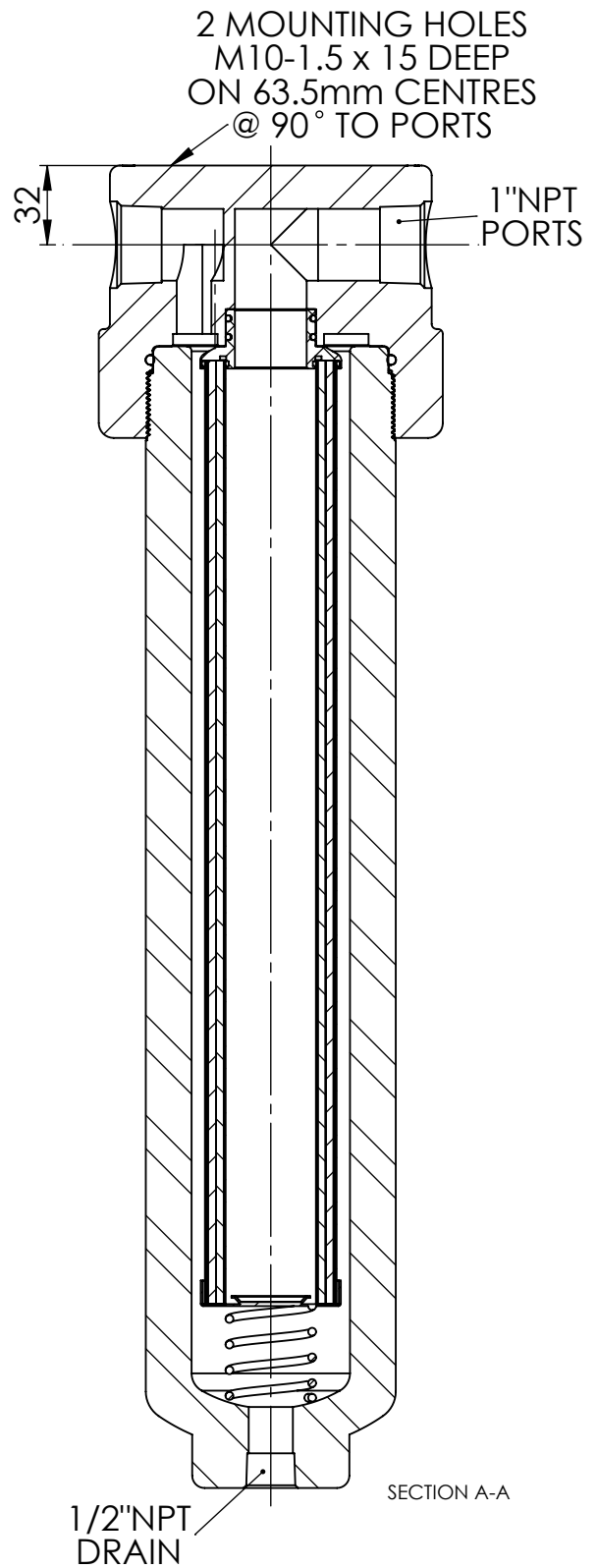
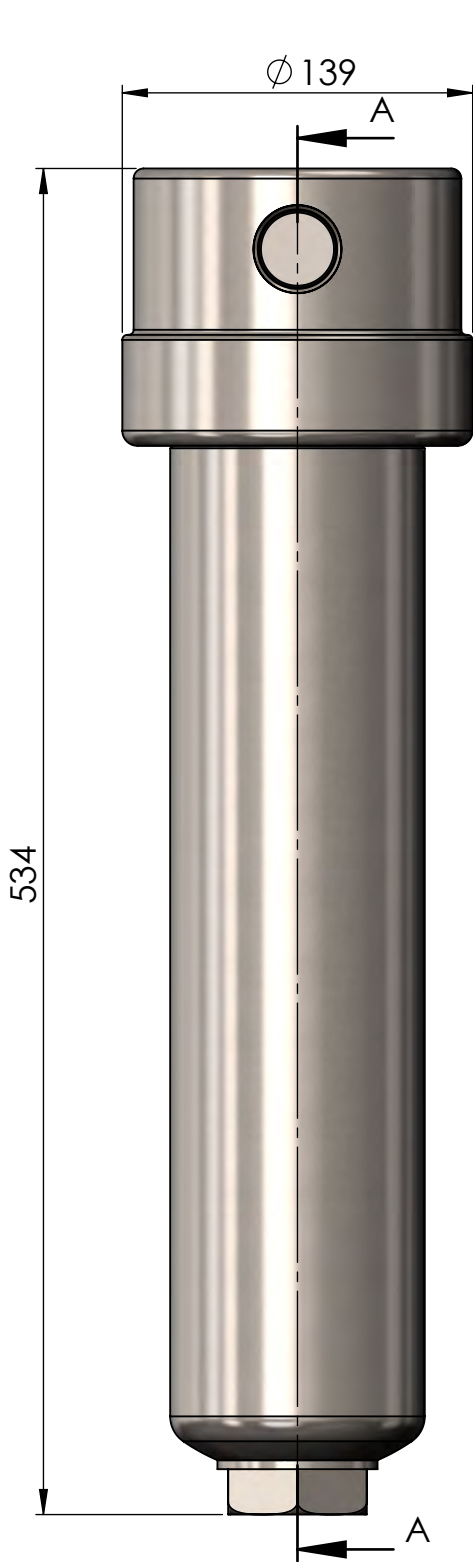
217mm MIN CLEARANCE  
FOR BOWL REMOVAL

<p><b>IF IN DOUBT ASK</b></p>	<p>PART DESCRIPTION:</p>			<p>SCALE:</p>	<p>1:2</p>
<p><b>Headline Filters Ltd</b>                  Unit 1-2 Mill Hall Business Estate                  Aylesford                  Kent                  ME20 7JZ                  Tel: 01622 718927                  Fax: 01622 882448                  www.headlinefilters.com</p> 	<p><b>180VP-4524 1"NPT~1/2"NPT GA</b></p>			<p>ECN No: *</p>	<p>THE COPYRIGHT OF THIS DRAWING IS RESERVED BY HEADLINE FILTERS LTD. IT IS ISSUED ON CONDITION IT IS NOT COPIED, REPRODUCED OR ISSUED TO ANY THIRD PARTY, EITHER WHOLLY OR IN PART WITHOUT CONSENT IN WRITING FROM HEADLINE FILTERS LTD.</p>
<p>DESIGN PRESSURE: 380 bar</p>	<p>DESIGN TEMPERATURE: 200 Deg C</p>	<p>SURFACE FINISH: 32/ ▽</p>	<p>DRAWN BY: J.Rose</p>		
<p>GENERAL TOLERANCE: X. +/- 0.25 X.XX +/- 0.125</p>	<p>MATERIAL: SA4779 316/L</p>	<p>DRAWING NUMBER: HF4/4642</p>	<p>DATE: 10/01/2022</p>		
<p><b>DO NOT SCALE</b></p>					



**CODE OF CONSTRUCTION: ASME B31.3 2020 EDITION**  
**MAWP: 5511 PSI (380 Bar)**  
**MDMT: -320 °F @ 5511PSI (-196 ° @ 380 BAR)**  
**HYDROTEST PRESSURE: 8267 PSI (570 BAR)**  
**CORROSION ALLOWANCE: 0**  
**IMPACT TEST EXEMPT PER 323.2.2**  
**MAX TEMP: 400 °F (200C)**  
**RT: NONE**

<b>IF IN DOUBT ASK</b> <b>Headline Filters Ltd</b> Unit 1-2 Mill Hall Business Estate Aylesford Kent ME20 7JZ Tel: 01622 718927 Fax: 01622 882448 www.headlinefilters.com	<b>PART DESCRIPTION:</b> <h3 style="text-align: center;">180VP-4524 SAE16~SAE8 GA</h3>			<b>SCALE:</b> 1:2
	<b>DESIGN PRESSURE:</b> 380 bar	<b>DESIGN TEMPERATURE:</b> 200 Deg C	<b>SURFACE FINISH:</b> $\sqrt{32}$	<b>ECN No:</b> *
	<b>GENERAL TOLERANCE:</b> X. +/- 0.25 X.XX +/- 0.125	<b>MATERIAL:</b> SA477 316/L	<b>DRAWN BY:</b> J.Rose	THE COPYRIGHT OF THIS DRAWING IS RESERVED BY HEADLINE FILTERS LTD. IT IS ISSUED ON CONDITION IT IS NOT COPIED, REPRODUCED OR ISSUED TO ANY THIRD PARTY, EITHER WHOLLY OR IN PART WITHOUT CONSENT IN WRITING FROM HEADLINE FILTERS LTD.
	<b>DO NOT SCALE</b>	Page 18 of 40	<b>DRAWING NUMBER:</b> <b>HF4/4650</b>	



**CODE OF CONSTRUCTION: ASME B31.3 2020 EDITION**  
**MAWP: 5511 PSI (380 Bar)**  
**MDMT: -320°F @ 5511PSI (-196° @ 380 BAR)**  
**HYDROTEST PRESSURE: 8267 PSI (570 BAR)**  
**CORROSION ALLOWANCE: 0**  
**IMPACT TEST EXEMPT PER 323.2.2**  
**MAX TEMP: 400°F (200C)**  
**RT: NONE**

**IF IN DOUBT ASK**

**Headline Filters Ltd**  
 Unit 1-2 Mill Hall Business Estate  
 Aylesford  
 Kent  
 ME20 7JZ  
 Tel: 01622 718927  
 Fax: 01622 882448  
 www.headlinefilters.com



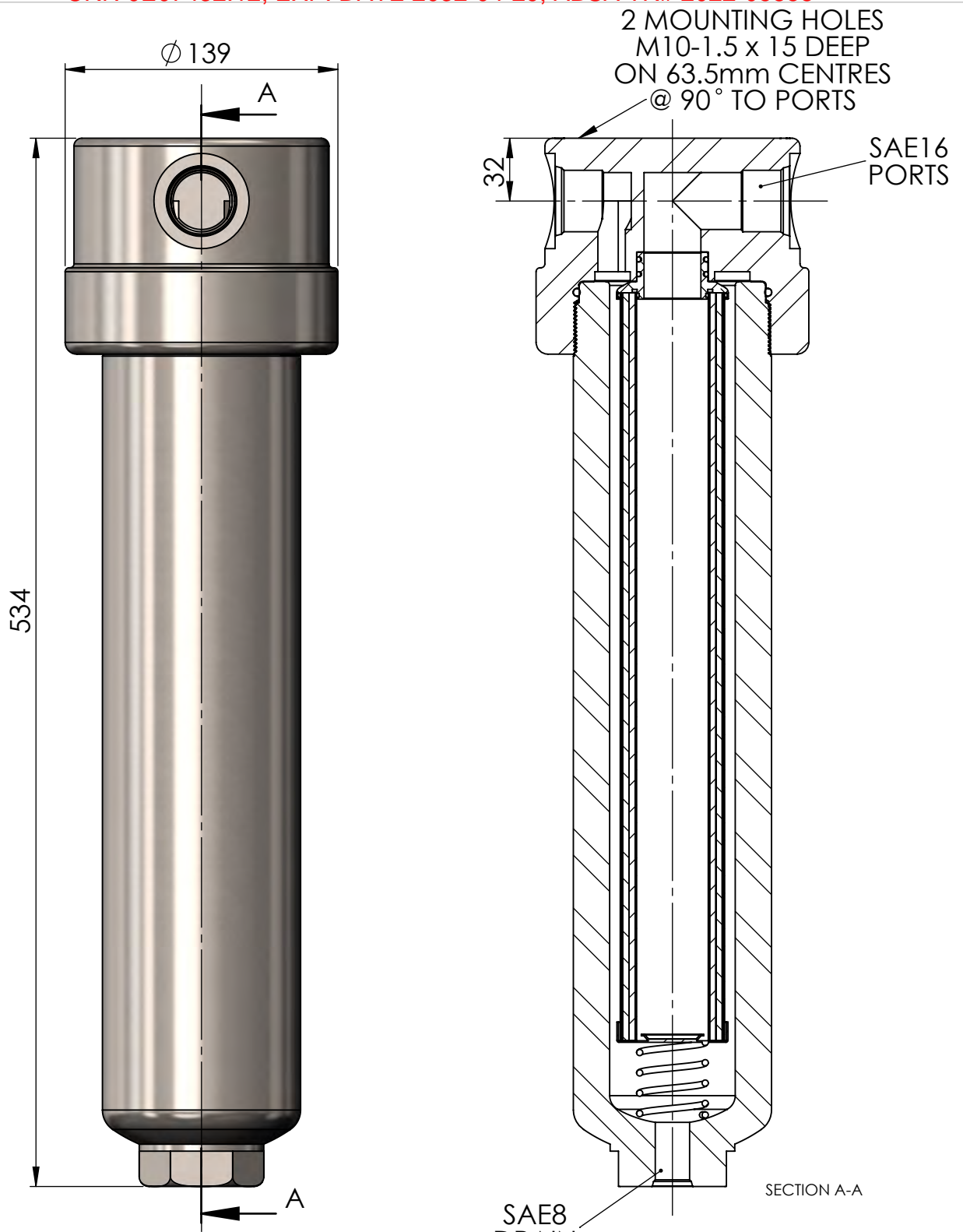
**DO NOT SCALE**




<b>PART DESCRIPTION:</b>		
<b>180VP-4607GA 1"NPT~1/2"NPT</b>		
<b>DESIGN PRESSURE:</b>	<b>DESIGN TEMPERATURE:</b>	<b>SURFACE FINISH:</b>
380 Bar	200° C	$\frac{32}{\nabla}$
<b>GENERAL TOLERANCE:</b>	<b>MATERIAL:</b>	<b>DRAWING NUMBER:</b>
X. +/- 0.25 X.XX +/- 0.125	SA479 318/L	<b>HF4/4607</b>

<b>SCALE:</b>	1:3
<b>ECN No:</b>	*
<b>DRAWN BY:</b>	J.Rose
<b>DATE:</b>	10/01/2022

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**CODE OF CONSTRUCTION: ASME B31.3 2020 EDITION**  
**MAWP: 5511 PSI (380 Bar)**  
**MDMT: -320 °F @ 5511PSI (-196 ° @ 380 BAR)**  
**HYDROTEST PRESSURE: 8267 PSI (570 BAR)**  
**CORROSION ALLOWANCE: 0**  
**IMPACT TEST EXEMPT PER 323.2.2**  
**MAX TEMP: 400 °F (200C)**  
**RT: NONE**

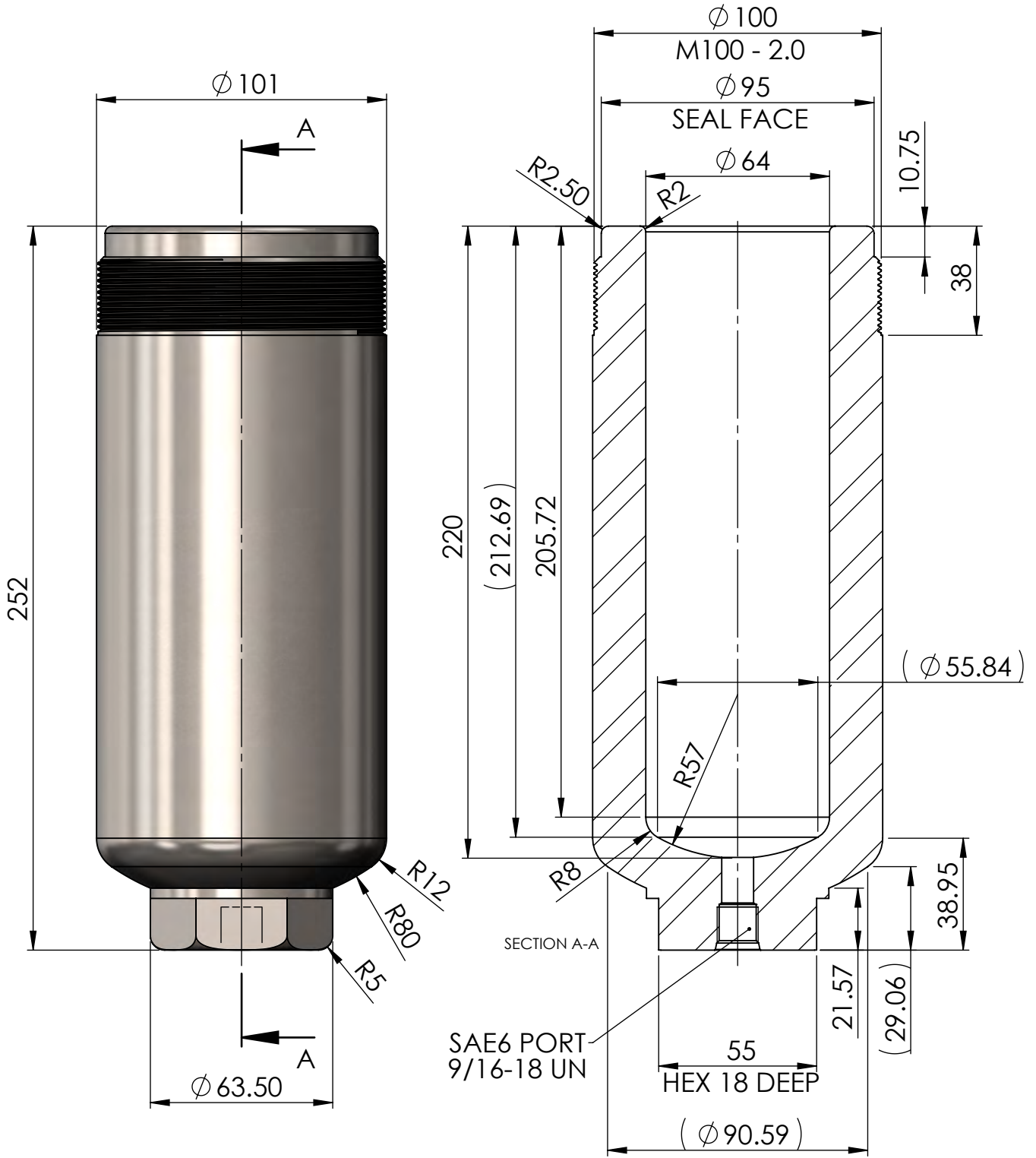
<p><b>IF IN DOUBT ASK</b></p> <p><b>Headline Filters Ltd</b>                  Unit 1-2 Mill Hall Business Estate                  Aylesford                  Kent                  ME20 7JZ                  Tel: 01622 718927                  Fax: 01622 882448                  www.headlinefilters.com</p> 	<p><b>PART DESCRIPTION:</b></p> <p><b>180VP-4607GA SAE16~SAE8</b></p>			<p><b>SCALE:</b> 1:3</p>	
	<p><b>DESIGN PRESSURE:</b> 380 Bar</p>	<p><b>DESIGN TEMPERATURE:</b> 200 ° C</p>	<p><b>SURFACE FINISH:</b> 32/</p>	<p><b>ECN No:</b> *</p>	<p>THE COPYRIGHT OF THIS DRAWING IS RESERVED BY HEADLINE FILTERS LTD. IT IS ISSUED ON CONDITION IT IS NOT COPIED, REPRODUCED OR ISSUED TO ANY THIRD PARTY, EITHER WHOLLY OR IN PART WITHOUT CONSENT IN WRITING FROM HEADLINE FILTERS LTD.</p>
<p><b>GENERAL TOLERANCE:</b> X. +/- 0.25 X.XX +/- 0.125</p>	<p><b>MATERIAL:</b> SA479 318/L</p>	<p><b>DRAWING NUMBER:</b> HF4/4616</p>	<p><b>DRAWN BY:</b> J.Rose</p>	<p><b>DATE:</b> 10/01/2022</p>	

DO NOT SCALE







JOB No: MATERIAL No:



SHARP EDGES AND BURRS TO BE REMOVED

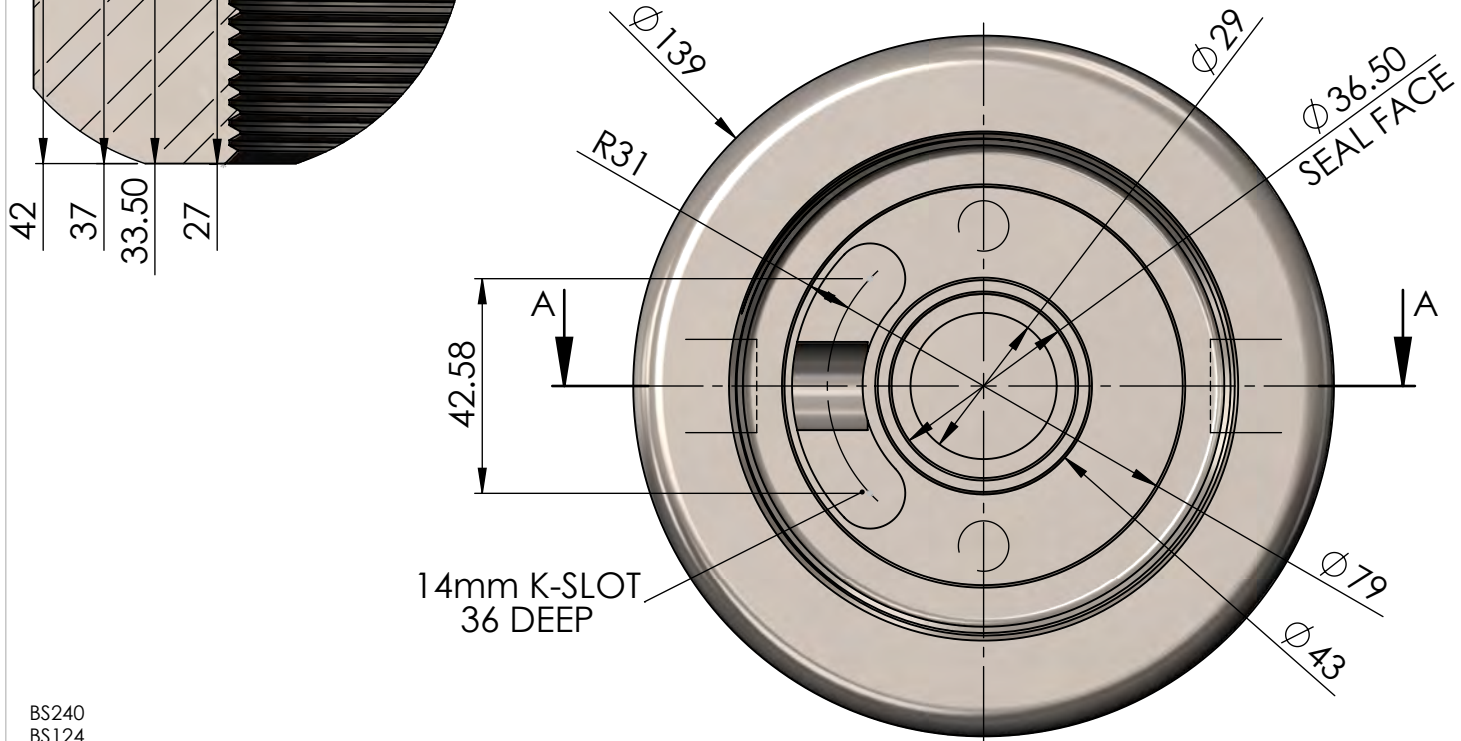
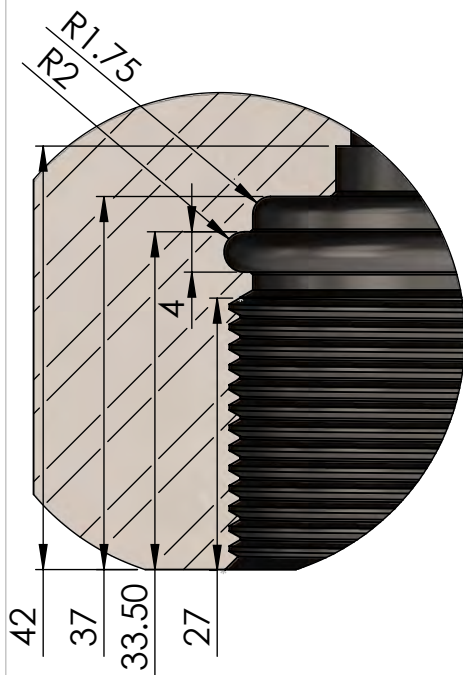
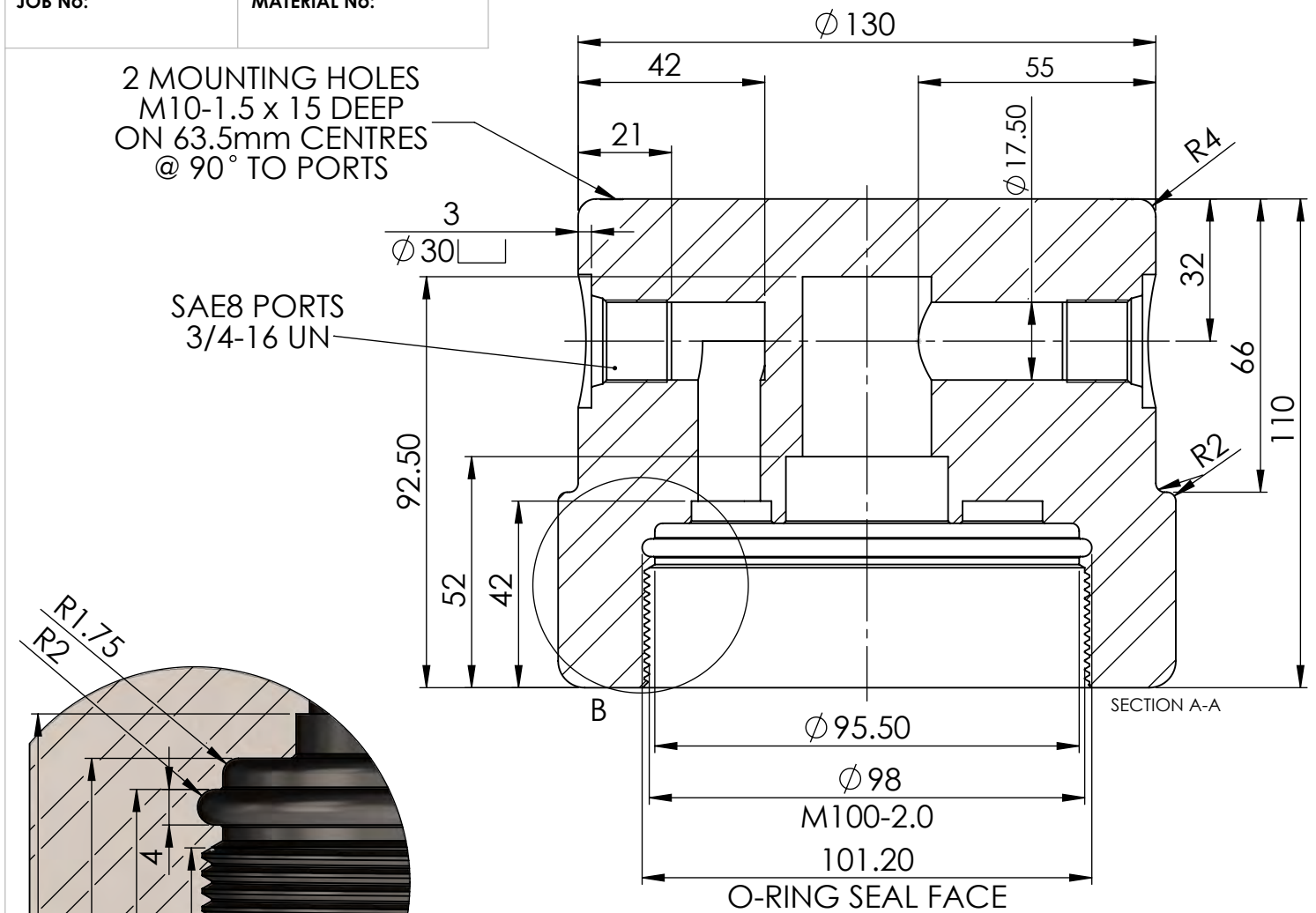
<b>IF IN DOUBT ASK</b>		DRAWING ISSUED BY:	ISSUE DATE:	QUANTITY:	SCALE: 1:2
<b>Headline Filters Ltd</b> Unit 1-2 Mill Hall Business Estate Aylesford Kent ME20 7JZ Tel: 01622 718927 Fax: 01622 882448 www.headlinefilters.com		<b>PART DESCRIPTION:</b> <b>180VP SAE6 BOWL</b>		ECN No: *	THE COPYRIGHT OF THIS DRAWING IS RESERVED BY HEADLINE FILTERS LTD. IT IS ISSUED ON CONDITION IT IS NOT COPIED, REPRODUCED OR ISSUED TO ANY THIRD PARTY, EITHER WHOLLY OR IN PART WITHOUT CONSENT IN WRITING FROM HEADLINE FILTERS LTD.
		SURFACE FINISH: 32/		DRAWN BY: J.Rose	
		GENERAL TOLERANCE: X. +/- 0.25 X.XX +/- 0.125	MATERIAL: SAE618 SA4793PL	DRAWING NUMBER: <b>HF4/4257</b>	
DO NOT SCALE		Page 21 of 40			

JOB No:

MATERIAL No:

2 MOUNTING HOLES  
M10-1.5 x 15 DEEP  
ON 63.5mm CENTRES  
@ 90° TO PORTS

SAE8 PORTS  
3/4-16 UN



BS240  
BS124

**IF IN DOUBT ASK**

DRAWING ISSUED BY:

ISSUE DATE:

QUANTITY:

SCALE:

1:1.5

**Headline Filters Ltd**

Unit 1-2 Mill Hall Business Estate  
Aylesford  
Kent  
ME20 7JZ  
Tel: 01622 718927  
Fax: 01622 882448  
www.headlinefilters.com



PART DESCRIPTION:

**180VP HEAD SAE8**

ECN No:

\*

SURFACE FINISH:

32/

DRAWN BY:

J.Rose

GENERAL TOLERANCE:

X. +/- 0.25  
X.XX +/- 0.125

MATERIAL:

SA477316L

DRAWING NUMBER:

HF4/4522

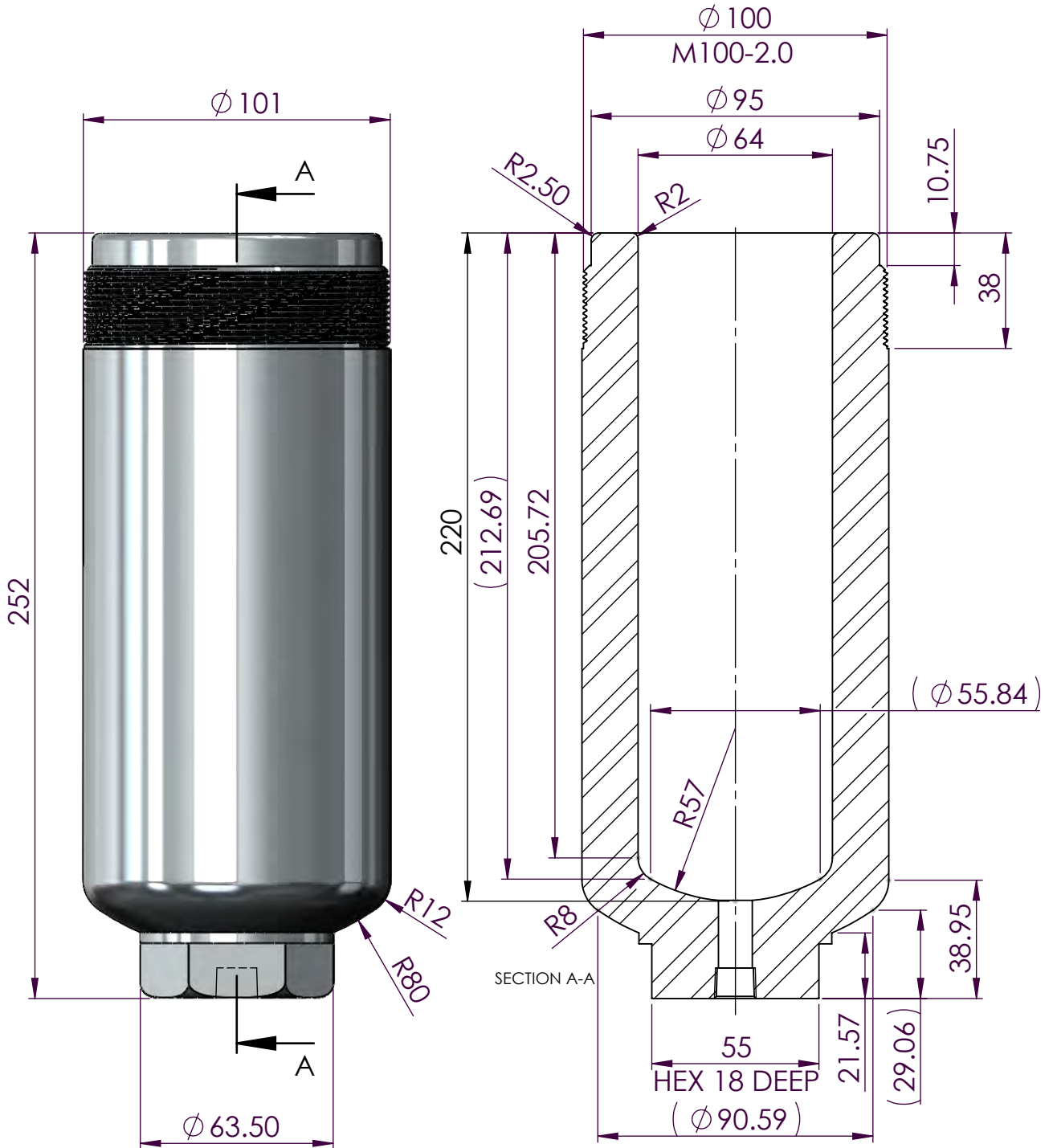
DATE:



10/01/2022

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**DO NOT SCALE**

JOB No: MATERIAL No:

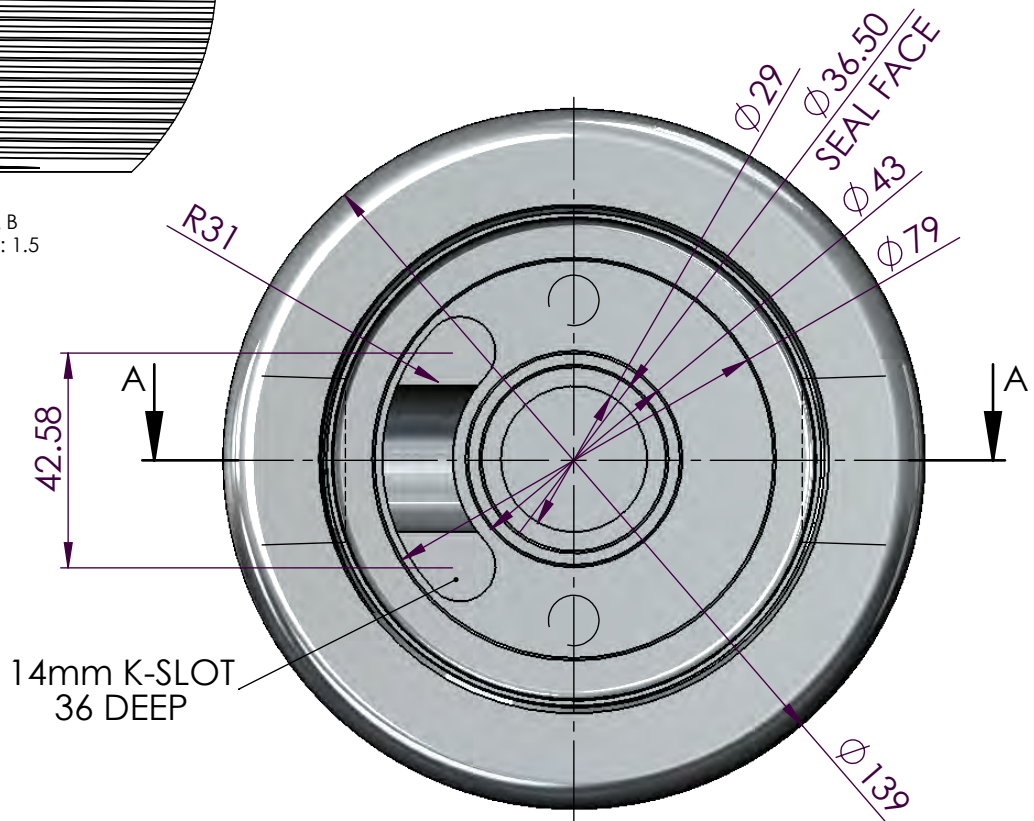
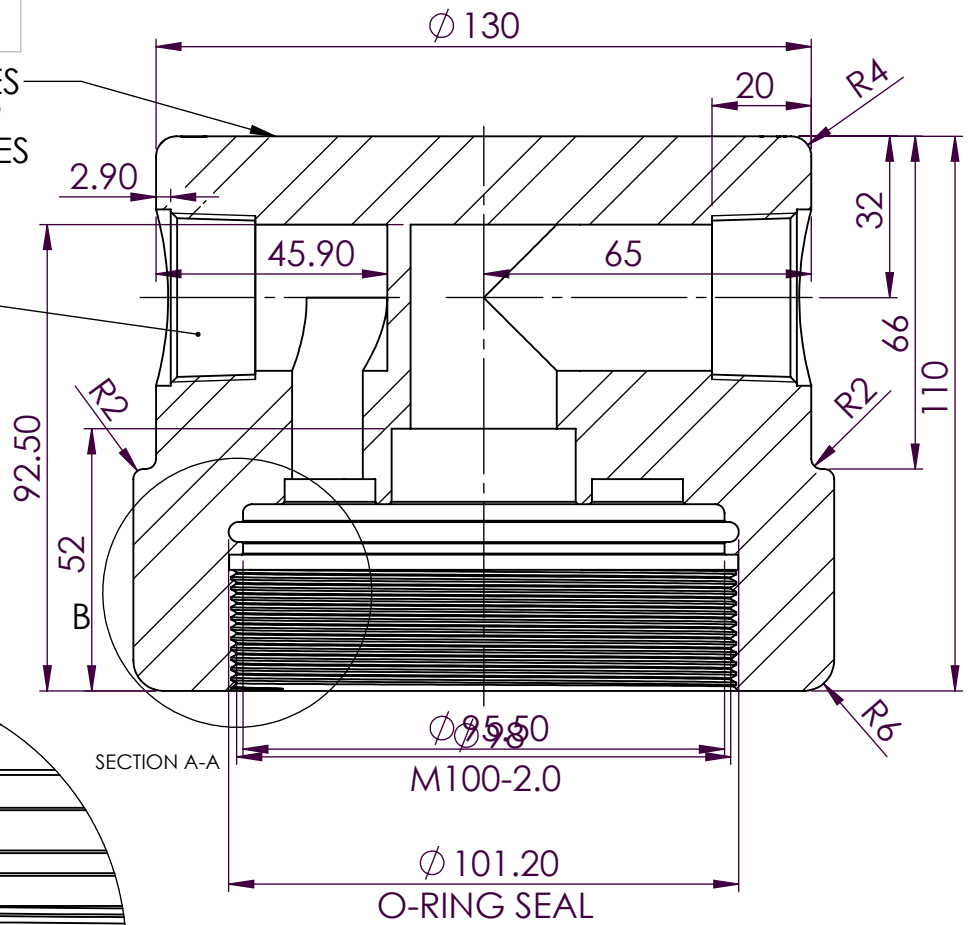
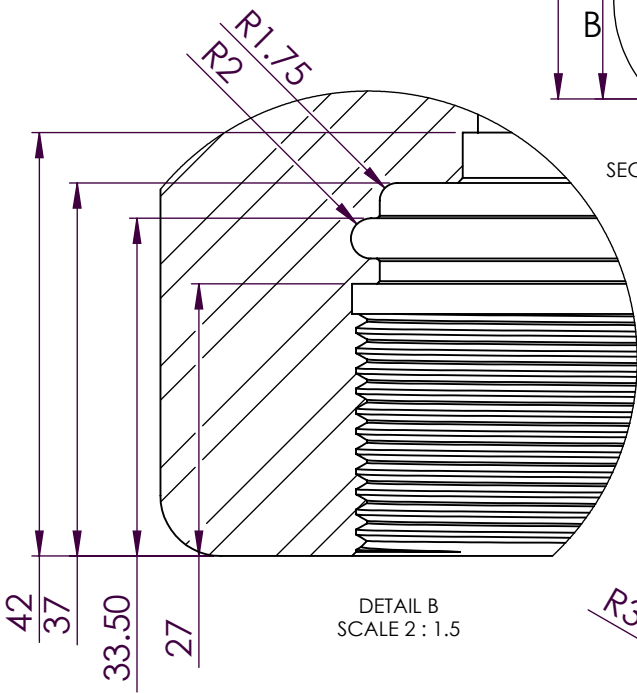



<p><b>IF IN DOUBT ASK</b></p>	<p>DRAWING ISSUED BY:</p>	<p>ISSUE DATE:</p>	<p>QUANTITY:</p>	<p>SCALE: 1:2</p>
<p><b>Headline Filters Ltd</b>                  Unit 1-2 Mill Hall Business Estate                  Aylesford                  Kent                  ME20 7JZ                  Tel: 01622 718927                  Fax: 01622 882448                  www.headlinefilters.com</p> 	<p>PART DESCRIPTION:  <b>180VP BOWL 1/4"NPT</b></p>		<p>ECN No:                  *</p>	<p>THE COPYRIGHT OF THIS DRAWING IS RESERVED BY HEADLINE FILTERS LTD. IT IS ISSUED ON CONDITION IT IS NOT COPIED, REPRODUCED OR ISSUED TO ANY THIRD PARTY, EITHER WHOLLY OR IN PART WITHOUT CONSENT IN WRITING FROM HEADLINE FILTERS LTD.</p>
<p><b>DO NOT SCALE</b></p>	<p>GENERAL TOLERANCE:                  X. +/- 0.25                  X.XX +/- 0.125</p>	<p>MATERIAL:                  SA477316L</p>	<p>SURFACE FINISH:                    DRAWING NUMBER:  <b>HF4/4256</b></p>	

JOB No: MATERIAL No:

2 MOUNTING HOLES  
M10-1.5 x 15 DEEP  
ON 63.5mm CENTRES  
@ 90° TO PORTS

1" NPT  
PORTS

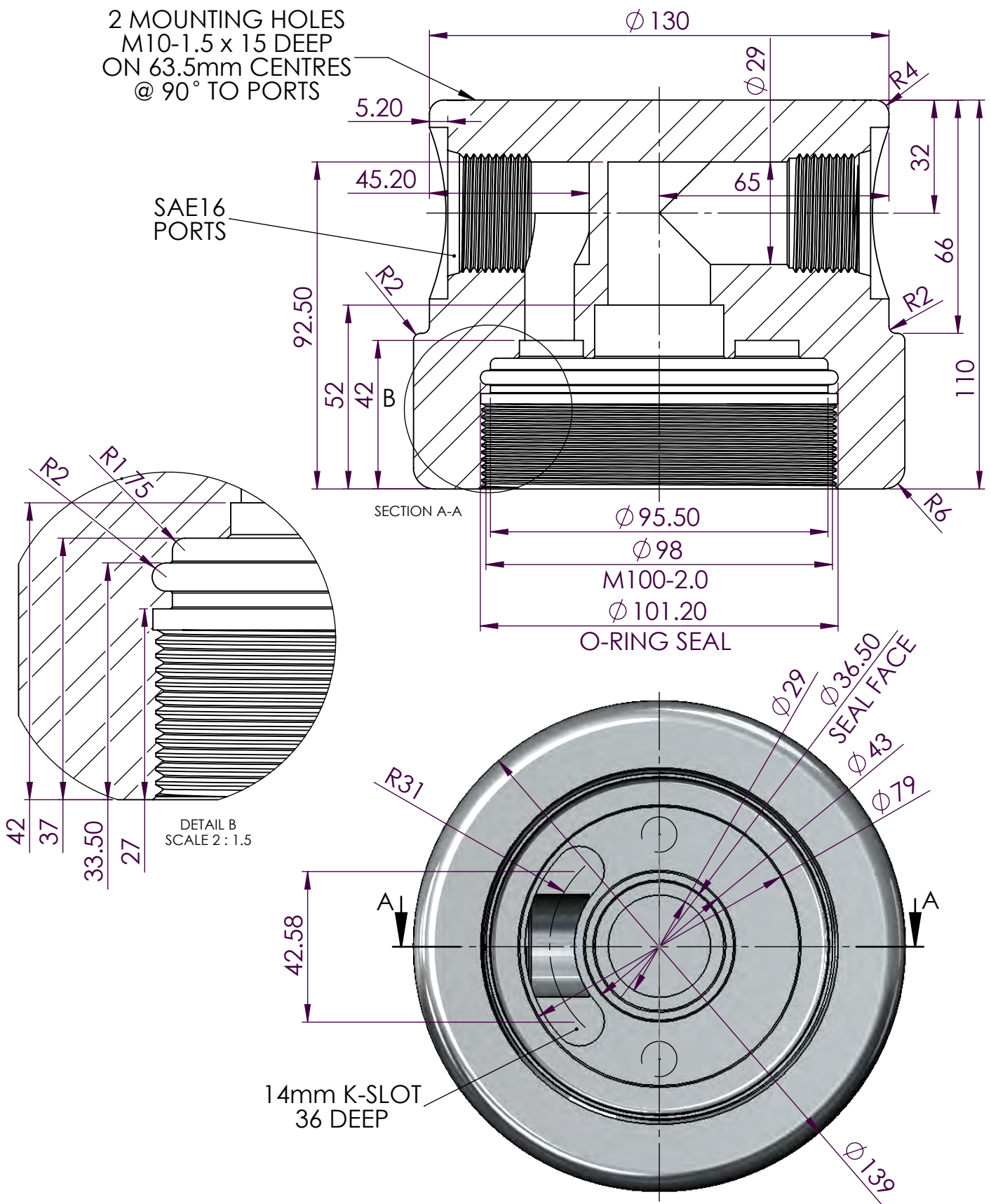



<p><b>IF IN DOUBT ASK</b></p> <p><b>Headline Filters Ltd</b> Unit 1-2 Mill Hall Business Estate Aylesford Kent ME20 7JZ Tel: 01622 718927 Fax: 01622 882448 www.headlinefilters.com</p>  <p><b>DO NOT SCALE</b></p>	<p><b>DRAWING ISSUED BY:</b></p>	<p><b>ISSUE DATE:</b></p>	<p><b>QUANTITY:</b></p>	<p><b>SCALE:</b> 1:1.5</p>
	<p><b>PART DESCRIPTION:</b> <b>180VP HEAD 1" NPT</b></p>		<p><b>ECN No:</b> *</p>	<p>THE COPYRIGHT OF THIS DRAWING IS RESERVED BY HEADLINE FILTERS LTD. IT IS ISSUED ON CONDITION IT IS NOT COPIED, REPRODUCED OR ISSUED TO ANY THIRD PARTY, EITHER WHOLLY OR IN PART WITHOUT CONSENT IN WRITING FROM HEADLINE FILTERS LTD.</p>
<p><b>GENERAL TOLERANCE:</b> X. +/- 0.25 X.XX +/- 0.125</p>	<p><b>MATERIAL:</b> SA477316L</p>	<p><b>SURFACE FINISH:</b> 32/ ▽</p>	<p><b>DRAWN BY:</b> J.Rose</p>	<p><b>DATE:</b> 25/10/2016</p>
<p><b>DRAWING NUMBER:</b> HF4/4251</p>		<p>Page 24 of 40</p>		

JOB No: MATERIAL No:

2 MOUNTING HOLES  
M10-1.5 x 15 DEEP  
ON 63.5mm CENTRES  
@ 90° TO PORTS

SAE16  
PORTS



<p><b>IF IN DOUBT ASK</b></p> <p><b>Headline Filters Ltd</b> Unit 1-2 Mill Hall Business Estate Aylesford Kent ME20 7JZ Tel: 01622 718927 Fax: 01622 882448 www.headlinefilters.com</p>  <p><b>DO NOT SCALE</b></p>	<p>DRAWING ISSUED BY:</p>	<p>ISSUE DATE:</p>	<p>QUANTITY:</p>	<p>SCALE: 1:1.5</p>
	<p>PART DESCRIPTION: <b>180VP HEAD SAE16</b></p>		<p>ECN No: *</p>	<p>THE COPYRIGHT OF THIS DRAWING IS RESERVED BY HEADLINE FILTERS LTD. IT IS ISSUED ON CONDITION IT IS NOT COPIED, REPRODUCED OR ISSUED TO ANY THIRD PARTY, EITHER WHOLLY OR IN PART WITHOUT CONSENT IN WRITING FROM HEADLINE FILTERS LTD.</p>
<p>GENERAL TOLERANCE:</p> <p>X. +/- 0.25 X.XX +/- 0.125</p>	<p>MATERIAL: SA477316L</p>	<p>SURFACE FINISH: 32/</p>	<p>DRAWN BY: J.Rose</p>	
		<p>DRAWING NUMBER: <b>HF4/4252</b></p>	<p>DATE: 25/10/2016</p>	