

345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel.: 416.734.3300 Fax: 416.231.1626 Toll Free: 1.877.682.8772

www.tssa.org

August 15, 2022

ROUND ENGINEERING INC 10 SEGWUN RD WATERDOWN ON L8B 0K6 CANADA

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 8128961

Your Reference No.: R-1473 - CRN#0E7432.1 Registered to: HEADLINE FILTERS LTD

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN: 0E7432.15

Main Design No.: 180VP FILTER - SCOPE OF CRN REGISTRATION

Expiry Date: Apr 29, 2032

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

Note: Design registration completed under interprovincial agreement with jurisdictional check only.

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Wendy Du Engineer, BPV

Tel.: +1 416-734-3566 Email: Wdu@tssa.org

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Technical Standards and Safety Authority 345 Carlingview Drive Toronto, Ontario M9W 6N9 www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



this application, the following information and/or test data are attached as follows: SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS (drawings, calculations, test reports, etc.) Declared before me at 16 Mill Street, Maidstone in the County of Kent the 28th day of February AD 20 22 . Alexander Gwillum Astley Commissioner for Oaths: Alexander Gwillum Astley (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the equirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels CSA Standard B51 and is accepted for registration in Category CRN: Registered by: Date: August 15 2022		TORY DECLA Registration of Fittin			
Located at Mill Hall Business Estate, Aylesford, ME20 7.1Z, United Kingdom +44(0) 1622 718927 (Pear Address) (Pear Address) (Telephone No.) (Fax No.) (Fax No.)	L Scott Hardiman, Works Manager				
Located at Mill Hall Business Estate, Aylesford, ME20 7JZ, United Kingdom	(Name and Position,	, e.g. President, Plant Manager, Ch	ief Engineer)		
Located at Mill Hall Business Estate, Aylesford, ME20 7JZ, United Kingdom	of Headline Filters Limited				
In the declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boile and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3 Citile of recognized North American Standard		(Name of Manufacturer)			
In the declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boile and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3 Citile of recognized North American Standard	Located at Mill Hall Business Estate, Aylesford, ME	E20 7JZ, United Kingdom	+44(0) 1622 718	3927	
and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3 (Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service; or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply will be applicated by the attached data which identifies the dimensions, material of construction pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service. I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of So 9001:2015 which has been verified by the following authority, BSI The items covered by this declaration, for which I seek registration, are category E-Filters this application, the following information and/or test data are attached as follows: SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS (thrawings, calculations, test reports, etc.) Declared before me at 16 Mill Street, Maidstone in the County of Kent The Less of Maidstone, Kent. ME15 6XT Tel: 01622 678341 Notary Public FOR OFFICE USE ONLY (Signature) FOR OFFICE USE ONLY (Signature) FOR OFFICE USE ONLY (Signature) FOR OFFICE USE ONLY Alexander Gwillum Astley (Signature) REGISTERED C.R.N.: 067432.15 Signed: Authority REGISTERED C.R.N.: 067432.15 Signed: August 15 2022	(Plant Address)	v	(Telephone No.)	(Fax No.)	
which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service; or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply wing as supported by the attached data which identifies the dimensions, material of construction pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service. I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of SO 9001:2015 which has been verified by the following authority. BSI The items covered by this declaration, for which I seek registration, are category E-Filters type fittings. In support of this application, the following information and/or test data are attached as follows: SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS (drawings, calculations, test reports, etc.) Declared before me at 16 Mill Street, Maidstone in the County of Kent The 28th day of February AD 20 22 Alexander Gwilum Astley (Printed name) (Signature) FOR OFFICE-USE ONLY Tel: 01622 676341 Notary Public (Signature) FOR OFFICE-USE ONLY Authority REGISTERED CRN: 0E7432.15 Signed: CRN: 0E7432.15 Signed: Date: August 15, 2022	and Pressure Vessels Regulation, comply with		e Technical Stand a	ards and Safety Act, Boilers	
or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply wing as supported by the attached data which identifies the dimensions, material of construction pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service. If further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, BSI The items covered by this declaration, for which I seek registration, are category E - Filters type fittings. In support of this application, the following information and/or test data are attached as follows: SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS (drawings, calculations, test reports, etc.) Declared before me at 16 Mill Street, Maidstone in the County of Kent the 28th day of February AD 20 22 Alexander Gwillum Astley Commissioner for Oaths: Alexander Gwillum Astley (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the edimerinish of the Technical Standards and Safety Act, Boilers and Pressure Vessels Registered by: CRN: REGISTERED C.R.N.: 0E7432.15 Signed: W12 Date: August 15 2022				rking the fittings and service:	
SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS (drawings, calculations, test reports, etc.) Declared before me at 16 Mill Street, Maidstone in the County of Kent the 28th day of February AD 2022. Commissioner for Oaths: Alexander Gwilum Astley (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the equivalent of the Technical Standards and Safety Act, Boilers and Pressure Vessels Redulistion, and and Safety Authority REGISTERED C.R.N.: 0E7432.15 Signed: Date: August 15, 2022	I further declare that the manufacture of these fittings is which has been verified by the following	controlled by a quality system authority, BSI	e fitting for identification	on and service.	
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the 28th day of February AD 2022. Commissioner for Oaths: Alexander Gwilum Astley (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the rechnical Standards and Safety Act, Boilers and Pressure Vessels Registration in Category CRN: Registered by: Dated: Registered by: Dated: Alexander Gwilum Astley Alexander Gwilum Astley Alexander Gwilum Astley Alexander Gwilum Astley Maidstone, Kent. ME15 6XT Tel: 01622 678341 Notary Public Signature of Declarer) FOR OFFICE USE ONLY CSignature of Declarer) Boilers and Pressure Vessels Registration, and and Safety Authority REGISTERED C.R.N.: 0E7432.15 Signed: Date: August 15, 2022	(drawii	ngs, calculations, test reports, etc.)			
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(Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the reclinements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Registered by: CRN: Registered by: Dated: (Signature of Declarer) Boilers and Pressure Vessels Registration, and and Safety Authority REGISTERED C.R.N.: 0E7432.15 Signed: Date: August 15, 2022	Alexander Gwilum Astley	1511 F 1			
To the best of my knowledge and belief, the application meets the reduction in Category Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and and Safety Authority REGISTERED C.R.N.: 0E7432.15 Dated: Date: August 15, 2022			- ·		
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To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulated from and Safety Authority CRN: Registered by: Dated: Date: August 15, 2022	(Signature)	(Signature of Declarer)			
To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulated from and Safety Authority CRN: Registered by: Dated: Date: August 15, 2022	EO	D OFFICE LISE ONLY		~~~~	
Registered by: Dated: REGISTERED C.R.N.: 0E7432.15 Signed: WD Date: August 15, 2022	To the best of my knowledge and belief, the application me Technical Standards and Safety Act, Boilers and Press	eets the requirements of the ure Vessels Regulation, and and Safety	Pressure Vessels	Signal State	
Dated: Signed: W17	CRN:	— REGIS	TERED		
Dated: Signed: WID	Registered by:			Total Robert	
	Dated:	Signed: WI)		
NOTE: This registration expires on: AUL 29, 7037	NOTE: This registration expires on: Apr. 29, 2032	Date: August	15, 2022.	25/14	

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

PV 09553 (04/17)

HEADLINE FILTERS LTD

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



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15-Apr-22

SCOPE OF CRN REGISTRATION

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

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 IS PART OF CRN

0E7432.15

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program