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May 29, 2017

RALPH DAVIS
MUELLER REFRIGERATION LLC
121 ROGERS ST
HARTSVILLE TN 37074
US

Service Request Type: BPV-Fitting Registration
Service Request No.: 2051704
Your Reference No.:
Registered to: MUELLER REFRIGERATION LLC

Dear RALPH DAVIS,

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

CRN No.: 0G0314.95R6
Main Design No.: PRODUCT SCOPE- LIST OF MODELS/PART NUMBERS,
NB CERTIFICATION LISTING
Expiry Date: 03-Mar-2027

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

Note: 10 years renewal to existing registration

The stamped copy of the approved registration and the invoice are mailed separately. 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,


Ruiming You, P.Eng.
Mechanical Engineer, BPV
Tel.: 416-734-3428
Fax: 416-231-6183
Email: ryou@tssa.org

**PRODUCT SCOPE --MUELLER REFRIGERATION LLC PRESSURE RELIEF VALVES
FOR CANADIAN REGISTRATION**

PRESSURE RATING (PSI)	Pressure Relief Valve Part Number	BODY SUB-ASSY Part Number	BODY Part Number	CALCULATIONS		
				SHEAR STRESS FOR ADJUSTMENT SCREW THREADS	SHEAR STRESS FOR RELIEF VALVE BODY THREADS	STRENGTH OF CYLINDERS
160-450	A-15501	A 17402	A 06900	YES (A-6915)	YES (A 6900)	YES (A 6900)
150-700	A-15502	A 17405	A 06901	YES (A-6916)	YES (A 6901)	YES (A 6901)
150-700	A-15503	A 17405	A 06901	YES (A-6916)	YES (A 6901)	YES (A 6901)
150-700	A-15504	A 17408	A-6902	YES (A-6916)	YES (A 6902)	YES (A 6902)
150-450	A-15506	A 17664	A-6903	YES (A-6918)	YES (A 6903)	YES (A 6903)
160-450	A-15508	A 17399	A 06996	YES (A-6915)	YES (A 6996)	YES (A 6996)
160-450	A-15509	A 17432	N 02929	YES (A-6915)	YES (N 2929)	YES (N 2929)
150-700	A-15512	A 17405	A 06901	YES (A-6916)	YES (A 6901)	YES (A 6901)
150-700	A-15513	A 17405	A 06901	YES (A-6916)	YES (A 6901)	YES (A 6901)
150-700	A-15514	A 17408	A 06902	YES (A-6917)	YES (A 6902)	YES (A 6902)
150-700	A-17430	A 17405	A 06901	YES (A-6916)	YES (A 6901)	YES (A 6901)
150-450	A-17834	AG-17835	S-35991	YES (S35993)	YES (S35991)	YES (S35991)
150-450	A-17840	AG-17832	A-06904	YES (A-6919)	YES (A 6904)	YES (A 6904)
150-450	A-17970	N/A	S-36375	YES (A-6917)	YES (S36375)	YES (S36375)
150-450	A-18356	A-18359	S-36660	YES (A-6917)	YES (S-36660)	YES (S-36660)
150-450	A-18357	A-18359	S-36660	YES (A-6917)	YES (S-36660)	YES (S-36660)
150-450	A-18358	A-18362	S-36661	YES (A-6917)	YES (S-36661)	YES (S-36661)
150-450	A-18387	AG-18388	S-36678	YES (S35993)	YES (S36678)	YES (S36678)
600-700	A-18422	A-18426	S-36782	YES (S-36815)	YES (S 36782)	YES (S 36782)
150-450	A-18424	AG-18428	S-36790	YES (A-6919)	YES (S 36790)	YES (S 36790)
150-450	A-18425	AG-18427	S-36786	YES (S35993)	YES (S-36786)	YES (S-36786)
150-450	A-18443	N/A	S-36823	YES (A-6917)	YES (S 36823)	YES (S 36823)
150-450	A-18444	AG-18445	S-36845	YES (S35993)	YES (S-36845)	YES (S-36845)
150-450	A-18473	N/A	S-36868	YES (S35993)	YES (S-36868)	YES (S-36868)
150-450	A-18540	A-18541	S-36962	YES (A-6917)	YES (S-36962)	YES (S-36962)
150-450	A-18735	AG-18773	S 37325	YES (A-6919)	YES (S37325)	YES (S37325)
150-700	A-18736	A 18766	S 37319	YES (A-6917)	YES (S 37319)	YES (S 37319)
150-700	A-18737	A 18766	S 37319	YES (A-6917)	YES (S 37319)	YES (S 37319)
150-700	A-18762	A 17408	A 6902	YES (A-6917)	YES (A 6902)	YES (A 6902)
150-700	A-18774	A 18775	S 37360	YES (A-6916)	YES (S 37360)	YES (S 37360)
150-700	A-18783	A 18766	S 37319	YES (A-6917)	YES (S 37319)	YES (S 37319)
150-700	A-18784	A 18766	S 37319	YES (A-6917)	YES (S 37319)	YES (S 37319)
150-700	A-19105	A-19110	S-37706	YES (A-6917)	YES (S-37706)	YES (S-37706)
150-700	A-19108	A-19115	S-37709	YES (A-6916)	YES (S-37709)	YES (S-37709)
150-700	B-33746	A 17497	S-34662	YES (A-6916)	YES (S 34662)	YES (S 34662)
150-700	B-33752	A 17497	S-34662	YES (A-6916)	YES (S 34662)	YES (S 34662)
150-700	B-33753	A 17497	S-34662	YES (A-6916)	YES (S 34662)	YES (S 34662)
150-700	B-33754	A 17497	S-34662	YES (A-6916)	YES (S 34662)	YES (S 34662)
150-700	B-33755	A 17497	S-34662	YES (A-6916)	YES (S 34662)	YES (S 34662)
160-450	B-34067	A 17399	A 06996	YES (A-6915)	YES (A 6996)	YES (A 6996)
150-700	B-34425	B-34424	S-35799	YES (A-6916)	YES (S 35799)	YES (S 35799)
150-450	B-34444	BB-34445	S-35824	YES (A-6918)	YES (S 35824)	YES (S 35824)
150-450	B-34519	BG-34520	S-35876	YES (A-6919)	YES (S-35876)	YES (S-35876)
150-450	B-34580	BG-34581	S-35996	YES (S35993)	YES (S35996)	YES (S35996)
150-700	B-35413	B-35424	S-36677	YES (A-6917)	YES (S 36677)	YES (S 36677)

**THIS IS PART OF
ORN 250314-95R6
STRENGTH OF
CYLINDERS
Boilers & Pressure Vessels
Safety Program**

ACI Central Inc.

20 McAulay Court
 Charlottetown, PE C1A 9M7
 Canada

Detail Information - Revision - Pressure Fitting Design

CRN: OG0314.9870YTN REV9

Manufacturer: Mueller Refrigeration Company LLC

FID/PV: FID-455

Trademark: stylized and wide blocked font "M" with an upside down triangle shape above.

Description: Rev. is CRN renewal. Safety relief valves incl. A-15501, A-15508, A-15509, B-34067, A-15502, A-15503, A-15512, B-33755, B-34425, A-15513, A-17430, A-18774, B-33746, B-33752, B-33753, B-33754, A-15504, A-15514, B-35413, A-18736, A-18737, A-18762, A-18783, A-18784, A-15506, B-34444, A-17840. (There are 45 models/part numbers - see 'Product scope').

Design code: ASME Sec.VIII, Div.1

Registration date: 03/06/2017

Expiry date: 03/03/2027

Pressure Rating	Type	Size	Material
160-450psig	A-15501, A-15508, A-15509, B-34067 (Gas)	1/8" to 1/2" (inlet)	B16 C36000
150-700psig	A-15502,A-15503,A-15512(Gas) B-33755, B-34425, A-15513	1/8"-3/8"(in);3/8",1/2"(out) A-17430, A-18774, B-33746,	B16 C36000 B-33752, B-33753, B-33754
150-700psig	A-15504, A-15514, B-35413, A-18736, A-18737, A-18762,(Gas)	3/8"-7/8"(in);5/8",3/4"(out) A-18783, A-18784	B16 C36000
150-450psig	A-15506, B-34444 (gas)	3/4"-7/8"(in.);3/4"(top)	B16 C36000
150-450psig	A-17840, A-18735, B-34519(gas)	3/4"-1.625"(in.);1"(out)	B16 C36000
150-450psig	A17834,B34580,A18387,A18473	1-1.625"(inlet);1",1.25"(outlet)	B16 C36000
There are several part numbers	which are not shown above	but are included with this	registration due to limited space

Mueller Refrigeration, LLC (MBC)

NB#: 41005

Location: 121 Rogers Street, Hartsville, TN 37074 United States

Acceptable Abbrev.: Block M

Mueller Refrigeration, LLC (MBC)

Location: 121 Rogers Street, Hartsville, TN 37074 United States

Acceptable Abbrev.: Block M

Certification Number: **41005** Design Series or catalog number: A15501, A15508, A15509, A15511, A18932 & B-34067

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on January 03, 1956

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: .206 SCFM/PSIA

Test Medium: Air/Gas

Certified Medium: Gas

Special Service: None

Set Pressure Definition: Start-to-Leak

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.125 - 0.5 NPS	Top	0.0128 sq in	0.128 in		160 - 450 psi	Air	VIII Div. 1

Certification Number: **41016** Design Series or catalog number: A15502, A15503, A15512, A15513, A17430, A18774, A18933, A18934, A-19108, B33746, B33752, B33753, B33754, B33755 & B34425

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on January 03, 1956

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: .4377 SCFM/PSIA

Test Medium: Air/Gas

Certified Medium: Gas

Set Pressure Definition: Start-to-Leak

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.125 - 0.375 NPS	3/8, 1/2 NPS	0.0284 sq in	0.19 in		150 - 700 psi	Air	VIII Div. 1

Certification Number: **41027** Design Series or catalog number: A15504, A15514, A15515, B35413, A18736, A18737, A18762, A18783, A18784, A18935, A19105

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on January 03, 1956

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: .9646 SCFM/PSIA

Test Medium: Gas

Certified Medium: Gas

Set Pressure Definition: Start-to-Leak

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.375 - 0.875 NPS	5/8, 3/4 NPS	0.0616 sq in	0.28 in		150 - 700 psi	Air	VIII Div. 1

Mueller Refrigeration, LLC (MBC)

NB#: 41049

location: 121 Rogers Street, Hartsville, TN 37074 United States

Acceptable Abbrev.: Block M

Certification Number: **41049** Design Series or catalog number: A-15506 & B-34444

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on May 22, 1956

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: .124 lb/min/psia

Test Medium: Air/Gas

Certified Medium: Gas

Set Pressure Definition: Start-to-Leak

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.75 - 0.875 NPS	.75 Top	0.1134 sq in	0.38 in		150 - 450 psi	Air	VIII Div. 1

Certification Number: **41050** Design Series or catalog number: A-17840, A-18735, & B-34519

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on July 08, 1999

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 2.69 SCFM/PSIA

Test Medium: Air/Gas

Certified Medium: Gas

Set Pressure Definition: Bubble

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.75 - 1.625 NPS	1 NPS	0.196 sq in	0.5 in		150 - 450 psi	Air	VIII Div. 1

Certification Number: **41061** Design Series or catalog number: A-17834, B-34580, A-18387

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on October 29, 1999

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 4.4 SCFM/PSIA

Test Medium: Air/Gas

Certified Medium: Gas

Set Pressure Definition: Bubble

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
1 - 1.625 NPS	1, 1.25 NPS	0.4185 sq in	0.73 in	0.183 in	150 - 450 psi	Air	VIII Div. 1

Certification Number: **41072** Design Series or catalog number: A-17970, A-18443

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on October 28, 2002

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 1.39 SCFM/PSIA

Test Medium: Air/Gas

Certified Medium: Gas

Set Pressure Definition: Bubble

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.375 N/A	1 NPS	0.093 sq in	0.375 in		150 - 450 psi	Air	VIII Div. 1

Mueller Refrigeration, LLC (MBC)

NB#: 41083

Location: 121 Rogers Street, Hartsville, TN 37074 United States

Acceptable Abbrev.: Block M

Certification Number: **41083** Design Series or catalog number: A-18356, A-18357, A-18358, A-18540

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on August 07, 2007

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 1.87 SCFM/PSIA

Test Medium: Air

Certified Medium: Gas

Special Service: None

Set Pressure Definition: Start-to-Leak

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.5 - 0.875 NPS	.5, .75 NPS	0.151 sq in	0.438 in	0.109 in	150 - 450 psi	Air	VIII Div. 1

Certification Number: **41106** Design Series or catalog number: A-18422

Type Classification: Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on March 16, 2009

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 1.73 SCFM/PSIA

Test Medium: Air

Certified Medium: Gas

Special Service: None

Set Pressure Definition: Start-to-Leak

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.75 NPS	.75 NPS	0.1134 sq in	0.38 in		600 - 700 psi	Air	VIII Div. 1

Certification Number: **41117** Design Series or catalog number: A-18425, A-18444 (Teflon seat)

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on October 16, 2008

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 4.33 SCFM/PSIA

Test Medium: Gas

Certified Medium: Gas

Special Service: None

Set Pressure Definition: Start-to-Leak

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
1 - 1.25 NPS	1.25 NPS	0.4185 sq in	0.73 in		150 - 450 psi	Air	VIII Div. 1

Mueller Refrigeration, LLC (MBC)

NB#: 41128

Location: 121 Rogers Street, Hartsville, TN 37074 United States

Acceptable Abbrev.: Block M

Certification Number: **41128** Design Series or catalog number: A-18424 (Teflon seat)

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on January 20, 2009

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 2.906 SCFM/PSIA

Test Medium: Gas

Certified Medium: Gas

Special Service: None

Set Pressure Definition: Start-to-Leak

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
1 NPS	1 NPS	0.196 sq in	0.5 in		150 - 450 psi	Air	VIII Div. 1

Certification Number: **41140** Design Series or catalog number: A-18496

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on September 02, 2010

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 1.0 SCFM/PSIA

Test Medium: Air/Gas

Certified Medium: Gas

Special Service: None

Set Pressure Definition: Bubble

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.5 NPS	5/8 flare NPS	0.0616 sq in	0.28 in		550 - 700 psi	Air	VIII Div. 1