

REGULATORY REMINDER

To Our Valued Midland Customers: Midland would like to remind you of the AAR's specifications involving vacuum relief valves for <u>re-qualifications</u> and new tank construction. Please see the specs and our Midland product references below:

AAR Manual of Standards and Recommended Practices Specifications for Tank Cars

- M-1002 Appendix A: Vacuum Relief Valve
- 3.10.3 Effective July 1, 2013, for new tank car construction or at the time of the next qualification of existing tank cars, vacuum relief valves must meet the following conditions:
 - Must be designed to seal bubble-tight down to the start-to-open pressure and up to 165 psif (1138 kPag).
 - The minimum start-to-open pressure must be designed for negative 0.75 psig (5.17 kPag).
 - Must be designed so that they cannot be manually actuated from the outside.
- 3.10.4 Effective July 1, 2013, manually actuated vacuum relief valves must not be replaced in kind.

Lifective July	1, 2013, manua						be repla	iceu iii	KIIIG.
	lV	IIDLAND V	ACUUINI K	ELIEF VALVI	E – Cross i	Reference		1	
			1	1/2" NPT					
Net Flow Area .71 sq inches									
Standard Set-to-Discharge: .75 psi (options available)									
Effective July 1, NO STEP OPTIONS									
2013 these valves	GOOD - Stainless Steel BETTER - Stainless Steel BEST - Stainless Steel								on Chanl
CAN NOT be used								ss Steel	
Model	Model	psi		Model	psi	Includes	Model	psi	Includes
A-215	A-217-NS	0.75		A-211-FR10	0.75	Screen Filter	A-211-FR1	0.75	Screen + Baffle
A-217	A-217-NS-1.5	1.5		A-211-FR20	0.75	Mesh Filter	A-211-FR2	0.75	Mesh + Baffle
				A-211-FR10-2	2.0	Screen Filter	A-211-FR1-2	2.0	Screen + Baffle
				A-211-FR20-2	2.0	Mesh Filter	A-211-FR2-2	2.0	Mesh + Baffle
2 1/2" NPT									
Net Flow Area 1.12 sq inches									
Standard Set-to-Discharge: .75 psi (options available)									
Effective July 1,	NO STEP OPTIONS								
2013 these valves	GOOD - Stainless Steel BETTER - Stainless Steel BEST - S						T - Stainle	ss Steel	
CAN NOT be used	<u> </u>						1	T	
Model	Model	psi		Model	psi *	Includes	Model	psi *	Includes
A-207	A-209-NS	0.75		A-210-FR10	0.75	Screen Filter	A-210-FR1	0.75	Screen + Baffle
A-208	A-209-NS-2	2.0		A-210-FR20	0.75	Mesh Filter	A-210-FR2	0.75	Mesh + Baffle
A-209	A-209-NS-3	3.0		A-210-FR10-2	2.0	Screen Filter	A-210-FR1-2	2.0	Screen + Baffle
	A-209-NS-4	4.0		A-210-FR20-2	2.0	Mesh Filter	A-210-FR2-2	2.0	Mesh + Baffle
A-209-NS-4 5.0 * alternate settings avail * alternate settings avail									
FLANGED (4) 5/8" dia holes on 3 7/8" dia B.C.									
Net Flow Area .71 sq inches									
Standard Set-to-Discharge: .75 psi (options available)									
Effective July 1,	NO STEP OPTIONS								
2013 these valves	GOOD *= carbon ** = stainless steel BETTER - Stainless Steel BEST - Stainless Steel								ss Stool
CAN NOT be used									
Model	Model	psi	Includes	Model	psi √	Includes	Model	psi *	Includes
A-220	A-220-NS *	0.75		A-212-FR10	0.75	Screen Filter	A-212-FR1	0.75	Screen + Baffle
A-222	A-222-NS **	0.75		A-212-FR20	0.75	Mesh Filter	A-212-FR2	0.75	Mesh + Baffle
	A-220-3-NS *	3.0		A-212-FR10-2	2.0	Screen Filter	A-212-FR1-2	2.0	Screen + Baffle
	A-220-W-NS-FR20-3 *	3.0	Screen Filter	A-212-FR20-2	2.0	Mesh Filter	A-212-FR2-2	2.0	Mesh + Baffle
	A-222-3-NS **	3.0	C 5''	A-212-FR10-3	3.0	Screen Filter	A-212-FR1-3	3.0	Screen + Baffle
	A-222-W-NS-FR20-3 **	3.0	Screen Filter	A-212-FR20-3	3.0	Mesh Filter	A-212-FR2-3	3.0	Mesh + Baffle
	A-220-4-NS *	4.0	Caraar File	A-212-FR10-4	4.0	Screen Filter	A-212-FR1-4	4.0	Screen + Baffle
	A-220-W-NS-FR20-4 *	4.0	screen Fifter	A-212-FR20-4	4.0	Mesh Filter	A-212-FR2-4	4.0	Mesh + Baffle
	A-222-4-NS **	4.0	Caraan Filt	A-212-FR10-5	5.0	Screen Filter	A-212-FR1-5	5.0 5.0	Screen + Baffle
	A-222-W-NS-FR20-4 ** A-220-5-NS *	5.0	screen Fifter	A-212-FR20-5	5.0	Mesh Filter settings avail	A-212-FR2-4		Mesh + Baffle te settings avail
	A-220-5-N5 * A-220-W-NS-FR20-5 *	5.0	Screen Filter		v aiternate	settiligs avall		v aiterna	ie settiligs avall
	A-220-W-NS-FR20-5 ** A-222-5-NS **	5.0	Screen Filler						
	A-222-S-NS *** A-222-W-NS-FR20-5 **	5.0	Screen Filter						
	₩ 777-AA-IN3-LU70-3	5.0	ocieen riiter					1	

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7733 Gross Point Rd Skokie, Illinois USA 60077 Telephone: (847) 677-0333 Fax: (847) 677-0138