



Certificate of Compliance

This certificate is issued for the following:

**Anti-Water Hammer Check Valves
Air Release Valves**
(see attached listing)

Prepared for:
DeZurik-APCO
250 Riverside Ave North,
Sartell, MN 56377

FM Approvals Class: 1230 (December 2013), 1344 (January 2010)

Approval Identification: PR452067
Superseded by: RR220202
Superseded by: RR221082

Date Approved: July 10, 2019
Date Approved: October 7, 2019
Date Approved: December 10, 2019

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in dark ink, appearing to read "D. B. Fuller", is written over a horizontal line.

David B. Fuller
AVP, Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA



Member of the FM Global Group



Certificate of Compliance

Anti-Water Hammer Check Valves

CSC 300A, CSC 600A

<i>Product Designation</i>	<i>Valve Size, in.</i>	<i>Flow Rate, gal/min (dm³ /min)</i>	<i>Friction Loss, psi (kPa)</i>	<i>Rated Working Pressure, psi (kPa)</i>
CSC 300A	4	750 (2840)	9.8 (67.5)	250 (1725)
CSC 300A	6	1500 (5680)	6.5 (45.0)	250 (1725)
CSC 300A	8	3000 (11 355)	8.2 (56.5)	250 (1725)
CSC 300A	10	5000 (18 925)	9.3 (64.0)	250 (1725)
CSC 600A	4	750 (2840)	7.4 (51.0)	250 (1725)
CSC 600A	6	1500 (5680)	5.7 (39.5)	250 (1725)
CSC 600A	8	3000 (11 355)	7.4 (51.0)	250 (1725)
CSC 600A	10	5000 (18 925)	8.5 (58.5)	250 (1725)
CSC 600A	12	7000 (26 500)	8.0 (55.0)	250 (17



Member of the FM Global Group



Certificate of Compliance

Air Release Valves

ARV-50A-R332, ARV-55-R332, ARV-50A-R116

<i>Product Designation</i>	<i>Size, in. (mm)</i>	<i>Orifice Diameter, in. (mm)</i>	<i>Pressure Rating psi (kPa)</i>	<i>Remarks</i>
ARV-50A-R332	1/2 (13)	3/32 (2)	175 (1205)	a
	3/4 (19)	3/32 (2)		
	1 (25)	3/32 (2)		
ARV-50A-R116	1/2 (13)	1/16 (2)	300 (2070)	a
	3/4 (19)	1/16 (2)		
	1 (25)	1/16 (2)		
ARV-55-R332	1/2 (13)	3/32 (2)	175 (1205)	a

Remarks:

a. Valve supplied with a female NPT inlet end connection and a 1/2 inch female NPT outlet connection.



Member of the FM Global Group