

WATER HAMMER ARRESTER CERTIFICATE



This is to certify that a production Water Hammer Arrester, Model No. ART 1325 AA 1/2", manufactured by, or for Albion Valves Limited (UK), which conforms to the drawings and dimensions illustrated herein, has been tested by:

CSA International 8501 East Pleasant Valley Road, Cleveland, Ohio 44131
(Name of Independent Testing Laboratory) (Street, City, State and Zip Code)

as of this date in accordance with the testing procedure established by the Plumbing and Drainage Institute, in P.D.I. Standard WH-201, for size AA Water Hammer Arresters. It is further certified that when such arrester was tested on a 1/2 inch pipe line of fifty feet effective length, flow pressure of 60 P.S.I.G. and surge pressure of 340 P.S.I.G. (400 P.S.I.G. maximum total pressure), such arrester limited the total pressure created by sudden valve closure to 150 P.S.I.G. maximum which is the acceptable limit in such Standard.

The results of tests conducted on this unit are applicable to this unit only. Use of this data and/or reference to the Plumbing and Drainage Institute or the above named laboratory in connection with purported certification by any other means than testing to the applicable standard without the consent of the Plumbing and Drainage Institute will constitute a breach of the relevant certification Mark License Agreement with the Plumbing and Drainage Institute.

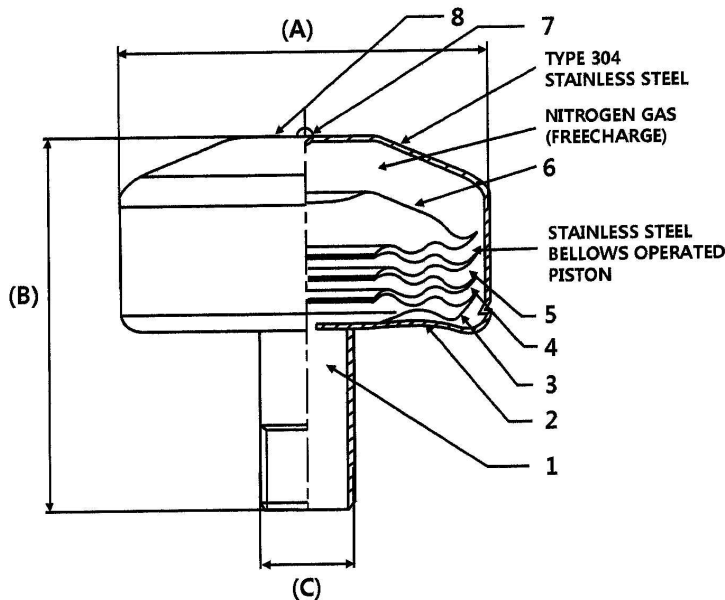


FIG. NO.	P.D.I. SYMBOL	FIXTURE UNIT RATING	(A) DIAMETER	(B) LENGTH	(C) CONNECTION
TYPE-AA	AA	1-3	3 1/4"	3 1/4"	1/2"

8	HOUSING	STS 304	1	1.2m/mthk	2B
7	BALL	STS 304	1	d 3.5m/m	
6	BELLOWS LID	STS 304	1	0.4m/mthk	2B
5	BELLOWS UPPER	STS 304	3	0.4m/mthk	2B
4	BELLOWS UNDER	STS 304	3	0.4m/mthk	2B
3	BELLOWS SEAT	STS 304	1	0.5m/mthk	2B
2	BODY SEAT	STS 304	1	1.2m/mthk	2B
1	PIPE	STS 304	1	SCHE40	1/2"
NO	PART NAME	MATERIAL	Q'TY	SIZE	REMARKS

SCALE 1:1	UNIT MM	MODEL NO ART 1325 AA 1/2"
3RD ANGEL PROJECTION	DWG. NO.	AB-0410001
DATE 2019.04.10	TYPE	STAINLESS STEEL SHOCK ARRESTOR
DRWN	DSND	CHKD
APPD	Albion Valves (UK) Limited	

(Drawing, dimensions and description)

The statements made herein are certified to be true and correct.

Name Mat Weiss Title Executive Director

Certification Date June 26, 2019 Test No. 80002684-0 [CL]

Expiration Date June 26, 2024

WATER HAMMER ARRESTER CERTIFICATE



This is to certify that a production Water Hammer Arrester, Model No. ART 1325 A 3/4", manufactured by, or for Albion Valves Limited (UK), which conforms to the drawings and dimensions illustrated herein, has been tested by:

CSA International

(Name of Independent Testing Laboratory)

8501 East Pleasant Valley Road, Cleveland, Ohio 44131

(Street, City, State and Zip Code)

as of this date in accordance with the testing procedure established by the Plumbing and Drainage Institute, in P.D.I. Standard WH-201, for size A Water Hammer Arresters. It is further certified that when such arrester was tested on a 1/2 inch pipe line of fifty feet effective length, flow pressure of 60 P.S.I.G. and surge pressure of 340 P.S.I.G. (400 P.S.I.G. maximum total pressure), such arrester limited the total pressure created by sudden valve closure to 150 P.S.I.G. maximum which is the acceptable limit in such Standard.

The results of tests conducted on this unit are applicable to this unit only. Use of this data and/or reference to the Plumbing and Drainage Institute or the above named laboratory in connection with purported certification by any other means than testing to the applicable standard without the consent of the Plumbing and Drainage Institute will constitute a breach of the relevant certification Mark License Agreement with the Plumbing and Drainage Institute.

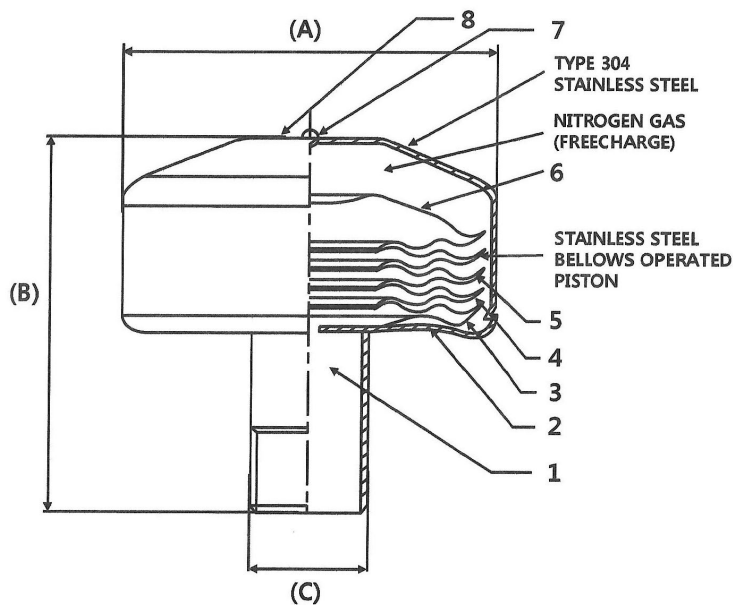


FIG. NO.	P.D.I. SYMBOL	FIXTURE UNIT RATING	(A) DIAMETER	(B) LENGTH	(C) CONNECTION
TYPE-A	A	1-11	3 1/4"	3 1/4"	3/4"

8	HOUSING	STS 304	1	1.2m/mthk	2B
7	BALL	STS 304	1	d 3.5m/m	
6	BELLOWS LID	STS 304	1	0.4m/mthk	2B
5	BELLOWS UPPER	STS 304	4	0.4m/mthk	2B
4	BELLOWS UNDER	STS 304	4	0.4m/mthk	2B
3	BELLOWS SEAT	STS 304	1	0.5m/mthk	2B
2	BODY SEAT	STS 304	1	1.2m/mthk	2B
1	PIPE	STS 304	1	SCHE40	3/4"
NO	PART NAME	MATERIAL	Q'TY	SIZE	REMARKS

SCALE 1:1	UNIT MM	MODEL NO ART 1325 A 3/4"	
3RD ANGEL PROJECTION		DWG. NO. AB-0410002	
DATE 2019.04.10		TYPE STAINLESS STEEL SHOCK ARRESTOR	
DRWN	DSND	CHKD	APPD
Albion Valves (UK) Limited			

(Drawing, dimensions and description)

The statements made herein are certified to be true and correct.

Name Mat Weiss

Title Executive Director

Certification Date June 26, 2019

Test No. 80002684-1 [CL]

Expiration Date June 26, 2024

WATER HAMMER ARRESTER CERTIFICATE



This is to certify that a production Water Hammer Arrester, Model No. ART 1325 B 1", manufactured by, or for Albion Valves Limited (UK), which conforms to the drawings and dimensions illustrated herein, has been tested by:

CSA International 8501 East Pleasant Valley Road, Cleveland, Ohio 44131
(Name of Independent Testing Laboratory) (Street, City, State and Zip Code)

as of this date in accordance with the testing procedure established by the Plumbing and Drainage Institute, in P.D.I. Standard WH-201, for size B Water Hammer Arresters. It is further certified that when such arrester was tested on a 3/4 inch pipe line of fifty feet effective length, flow pressure of 60 P.S.I.G. and surge pressure of 340 P.S.I.G. (400 P.S.I.G. maximum total pressure), such arrester limited the total pressure created by sudden valve closure to 150 P.S.I.G. maximum which is the acceptable limit in such Standard.

The results of tests conducted on this unit are applicable to this unit only. Use of this data and/or reference to the Plumbing and Drainage Institute or the above named laboratory in connection with purported certification by any other means than testing to the applicable standard without the consent of the Plumbing and Drainage Institute will constitute a breach of the relevant certification Mark License Agreement with the Plumbing and Drainage Institute.

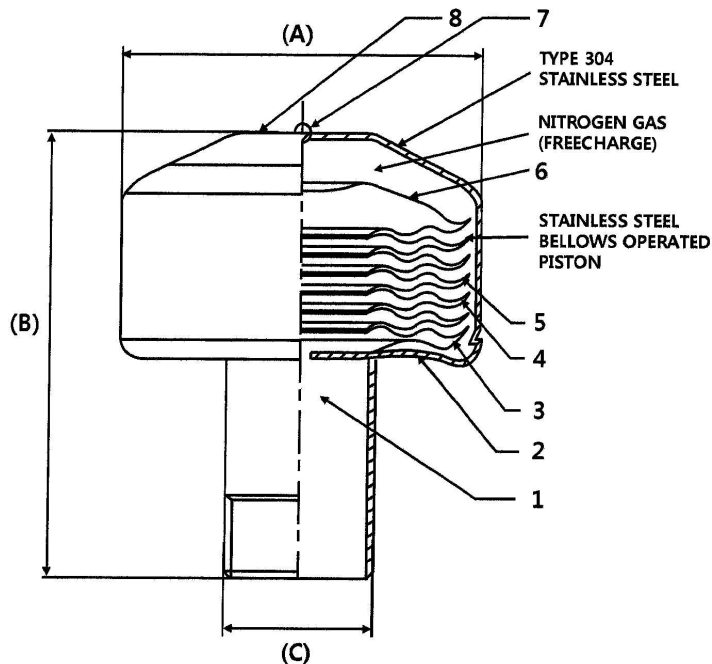


FIG. NO.	P.D.I. SYMBOL	FIXTURE UNIT RATING	(A) DIAMETER	(B) LENGTH	(C) CINNECTION
TYPE-B	B	12-32	3 1/4"	4 1/16"	1 "

8	HOUSING	STS 304	1	1.2m/mthk	2B
7	BALL	STS 304	1	d 3.5m/m	
6	BELLOWS LID	STS 304	1	0.4m/mthk	2B
5	BELLOWS UPPER	STS 304	6	0.3m/mthk	2B
4	BELLOWS UNDER	STS 304	6	0.3m/mthk	2B
3	BELLOWS SEAT	STS 304	1	0.5m/mthk	2B
2	BODY SEAT	STS 304	1	1.2m/mthk	2B
1	PIPE	STS 304	1	SCHE40	1"
NO	PART NAME	MATERIAL	Q'TY	SIZE	REMARKS

SCALE 1:1		UNIT MM	MODEL NO ART 1325 B 1"	
3RD ANGEL PROJECTION			DWG. NO.	AB-0410003
DATE 2019.04.10			TYPE STAINLESS STEEL SHOCK ARRESTOR	
DRWN	DSND	CHKD	APPD	Albion Valves (UK) Limited

(Drawing, dimensions and description)

The statements made herein are certified to be true and correct.

Name Mat Weiss Title Executive Director

Certification Date June 26, 2019 Test No. 80002684-2 [CL]

Expiration Date June 26, 2024

WATER HAMMER ARRESTER CERTIFICATE



This is to certify that a production Water Hammer Arrester, Model No. ART 1325 C 1", manufactured by, or for Albion Valves Limited (UK), which conforms to the drawings and dimensions illustrated herein, has been tested by:

CSA International

(Name of Independent Testing Laboratory)

8501 East Pleasant Valley Road, Cleveland, Ohio 44131

(Street, City, State and Zip Code)

as of this date in accordance with the testing procedure established by the Plumbing and Drainage Institute, in P.D.I. Standard WH-201, for size C Water Hammer Arresters. It is further certified that when such arrester was tested on a 1 inch pipe line of fifty feet effective length, flow pressure of 60 P.S.I.G. and surge pressure of 340 P.S.I.G. (400 P.S.I.G. maximum total pressure), such arrester limited the total pressure created by sudden valve closure to 150 P.S.I.G. maximum which is the acceptable limit in such Standard.

The results of tests conducted on this unit are applicable to this unit only. Use of this data and/or reference to the Plumbing and Drainage Institute or the above named laboratory in connection with purported certification by any other means than testing to the applicable standard without the consent of the Plumbing and Drainage Institute will constitute a breach of the relevant certification Mark License Agreement with the Plumbing and Drainage Institute.

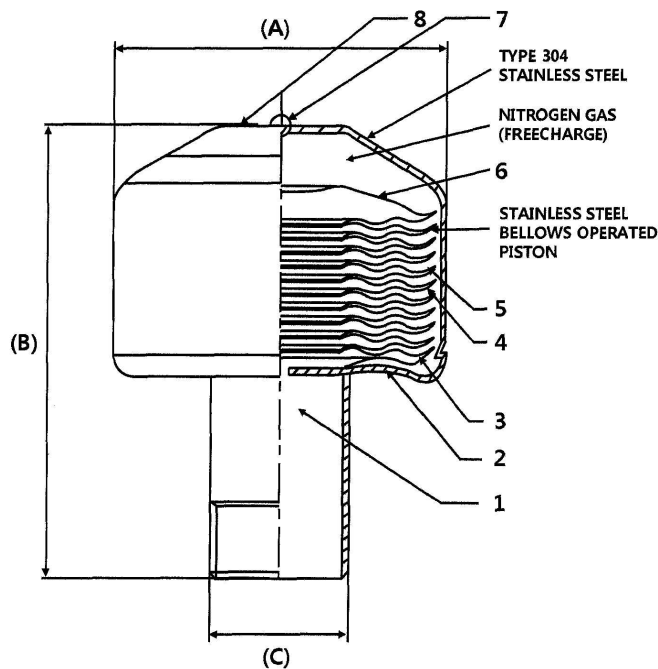


FIG. NO.	P.D.I. SYMBOL	FIXTURE UNIT RATING	(A) DIAMETER	(B) LENGTH	(C) CONNECTION
TYPE-C	C	33-60	3 1/4"	4 3/8"	1"

8	HOUSING	STS 304	1	1.2m/mthk	2B
7	BALL	STS 304	1	d 3.5m/m	
6	BELLOWS LID	STS 304	1	0.4m/mthk	2B
5	BELLOWS UPPER	STS 304	10	0.4m/mthk	2B
4	BELLOWS UNDER	STS 304	10	0.4m/mthk	2B
3	BELLOWS SEAT	STS 304	1	0.5m/mthk	2B
2	BODY SEAT	STS 304	1	1.2m/mthk	2B
1	PIPE	STS 304	1	SCHE40	1"
NO	PART NAME	MATERIAL	Q'TY	SIZE	REMARKS

SCALE 1:1	UNIT MM	MODEL NO ART 1325 C 1"		
3RD ANGEL PROJECTION		DWG. NO.	AB-0410004	
DATE 2019.04.10		TYPE STAINLESS STEEL SHOCK ARRESTOR		
DRWN	DSND	CHKD	APPD	Albion Valves (UK) Limited

(Drawing, dimensions and description)

The statements made herein are certified to be true and correct.

Name Mat Weiss

Title Executive Director

Certification Date June 26, 2019

Test No. 80002684-3 [CL]

Expiration Date June 26, 2024

WATER HAMMER ARRESTER CERTIFICATE



This is to certify that a production Water Hammer Arrester, Model No. ART 1325 D 1", manufactured by, or for Albion Valves Limited (UK), which conforms to the drawings and dimensions illustrated herein, has been tested by:

CSA International

(Name of Independent Testing Laboratory)

8501 East Pleasant Valley Road, Cleveland, Ohio 44131

(Street, City, State and Zip Code)

as of this date in accordance with the testing procedure established by the Plumbing and Drainage Institute, in P.D.I. Standard WH-201, for size D Water Hammer Arresters. It is further certified that when such arrester was tested on a 1-1/4 inch pipe line of fifty feet effective length, flow pressure of 60 P.S.I.G. and surge pressure of 340 P.S.I.G. (400 P.S.I.G. maximum total pressure), such arrester limited the total pressure created by sudden valve closure to 150 P.S.I.G. maximum which is the acceptable limit in such Standard.

The results of tests conducted on this unit are applicable to this unit only. Use of this data and/or reference to the Plumbing and Drainage Institute or the above named laboratory in connection with purported certification by any other means than testing to the applicable standard without the consent of the Plumbing and Drainage Institute will constitute a breach of the relevant certification Mark License Agreement with the Plumbing and Drainage Institute.

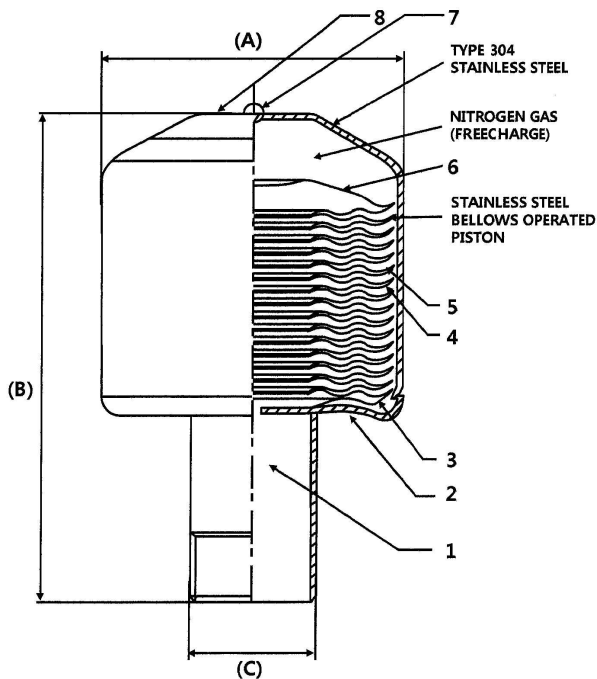


FIG. NO.	P.D.I. SYMBOL	FIXTURE UNIT RATING	(A) DIAMETER	(B) LENGH	(C) CINNECTION
TYPE-D	D	61-113	3 1/4"	5 1/4"	1 "

8	HOUSING	STS 304	1	1.2m/mthk	2B
7	BALL	STS 304	1	d 3.5m/m	
6	BELLOWS LID	STS 304	1	0.4m/mthk	2B
5	BELLOWS UPPER	STS 304	15	0.3m/mthk	2B
4	BELLOWS UNDER	STS 304	15	0.3m/mthk	2B
3	BELLOWS SEAT	STS 304	1	0.5m/mthk	2B
2	BODY SEAT	STS 304	1	1.2m/mthk	2B
1	PIPE	STS 304	1	SCHE40	1"
NO	PART NAME	MATERIAL	Q'TY	SIZE	REMARKS

SCALE 1:1	UNIT MM	MODEL NO ART 1325 D 1"		
3RD ANGEL PROJECTION		DWG. NO.	AB-0410005	
DATE 2019.04.10		TYPE STAINLESS STEEL SHOCK ARRESTOR		
DRWN	DSND	CHKD	APPD	Albion Valves (UK) Limited

(Drawing, dimensions and description)

The statements made herein are certified to be true and correct.

Name Mat Weiss

Title Executive Director

Certification Date June 26, 2019

Test No. 80002684-4 [CL]

Expiration Date June 26, 2024

WATER HAMMER ARRESTER CERTIFICATE



This is to certify that a production Water Hammer Arrester, Model No. ART 1325 E 1", manufactured by, or for Albion Valves Limited (UK), which conforms to the drawings and dimensions illustrated herein, has been tested by:

CSA International

(Name of Independent Testing Laboratory)

8501 East Pleasant Valley Road, Cleveland, Ohio 44131

(Street, City, State and Zip Code)

as of this date in accordance with the testing procedure established by the Plumbing and Drainage Institute, in P.D.I. Standard WH-201, for size E Water Hammer Arresters. It is further certified that when such arrester was tested on a 1-1/2 inch pipe line of fifty feet effective length, flow pressure of 60 P.S.I.G. and surge pressure of 340 P.S.I.G. (400 P.S.I.G. maximum total pressure), such arrester limited the total pressure created by sudden valve closure to 150 P.S.I.G. maximum which is the acceptable limit in such Standard.

The results of tests conducted on this unit are applicable to this unit only. Use of this data and/or reference to the Plumbing and Drainage Institute or the above named laboratory in connection with purported certification by any other means than testing to the applicable standard without the consent of the Plumbing and Drainage Institute will constitute a breach of the relevant certification Mark License Agreement with the Plumbing and Drainage Institute.

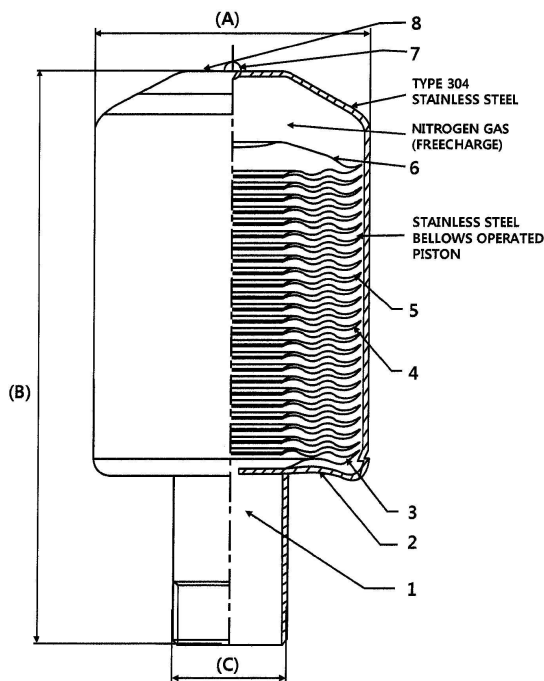


FIG. NO.	P.D.I. SYMBOL	FIXTURE UNIT RATING	(A) DIAMETER	(B) LENGTH	(C) CONNECTION
TYPE-E	E	114-154	3 1/4"	7 1/32"	1"

8	HOUSING	STS 304	1	1.2m/mthk	2B
7	BALL	STS 304	1	d 3.5m/m	
6	BELLOWS LID	STS 304	1	0.4m/mthk	2B
5	BELLOWS UPPER	STS 304	24	0.3m/mthk	2B
4	BELLOWS UNDER	STS 304	24	0.3m/mthk	2B
3	BELLOWS SEAT	STS 304	1	0.5m/mthk	2B
2	BODY SEAT	STS 304	1	1.2m/mthk	2B
1	PIPE	STS 304	1	SCHE40	1"
NO	PART NAME	MATERIAL	Q'TY	SIZE	REMARKS

SCALE 1:1	UNIT MM	MODEL NO ART 1325 E 1"		
3RD ANGEL PROJECTION		DWG. NO. AB-0410006		
DATE 2019.04.10		TYPE STAINLESS STEEL SHOCK ARRESTOR		
DRWN	DSND	CHKD	APPD	Albion Valves (UK) Limited

(Drawing, dimensions and description)

The statements made herein are certified to be true and correct.

Name Mat Weiss

Title Executive Director

Certification Date June 26, 2019

Test No. 80002684-5 [CL]

Expiration Date June 26, 2024

WATER HAMMER ARRESTER CERTIFICATE



This is to certify that a production Water Hammer Arrester, Model No. ART 1325 F 1", manufactured by, or for Albion Valves Limited (UK), which conforms to the drawings and dimensions illustrated herein, has been tested by:

CSA International 8501 East Pleasant Valley Road, Cleveland, Ohio 44131
(Name of Independent Testing Laboratory) (Street, City, State and Zip Code)

as of this date in accordance with the testing procedure established by the Plumbing and Drainage Institute, in P.D.I. Standard WH-201, for size F Water Hammer Arresters. It is further certified that when such arrester was tested on a 2 inch pipe line of fifty feet effective length, flow pressure of 60 P.S.I.G. and surge pressure of 340 P.S.I.G. (400 P.S.I.G. maximum total pressure), such arrester limited the total pressure created by sudden valve closure to 150 P.S.I.G. maximum which is the acceptable limit in such Standard.

The results of tests conducted on this unit are applicable to this unit only. Use of this data and/or reference to the Plumbing and Drainage Institute or the above named laboratory in connection with purported certification by any other means than testing to the applicable standard without the consent of the Plumbing and Drainage Institute will constitute a breach of the relevant certification Mark License Agreement with the Plumbing and Drainage Institute.

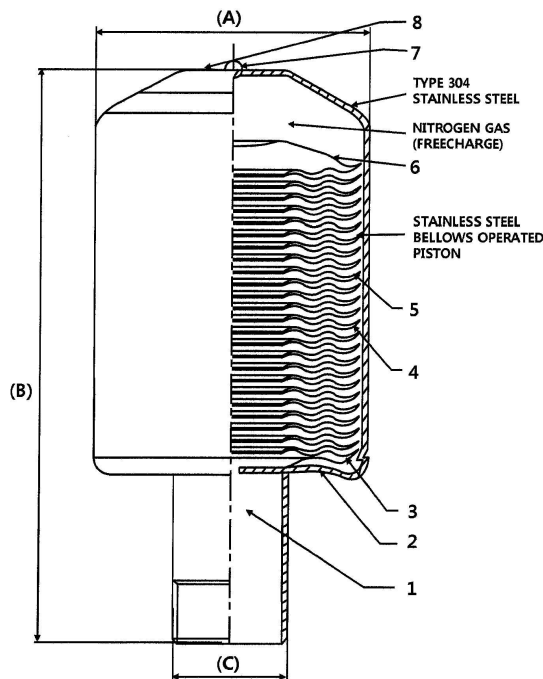


FIG. NO.	P.D.I. SYMBOL	FIXTURE UNIT RATING	(A) DIAMETER	(B) LENGH	(C) CINNECTION
TYPE-F	F	155-330	3 1/4"	7 1/32"	1"

8	HOUSING	STS 304	1	1.2m/mthk	2B
7	BALL	STS 304	1	d 3.5m/m	
6	BELLOWS LID	STS 304	1	0.4m/mthk	2B
5	BELLOWS UPPER	STS 304	24	0.3m/mthk	BA
4	BELLOWS UNDER	STS 304	24	0.3m/mthk	BA
3	BELLOWS SEAT	STS 304	1	0.5m/mthk	2B
2	BODY SEAT	STS 304	1	1.2m/mthk	2B
1	PIPE	STS 304	1	SCHE40	1"
NO	PART NAME	MATERIAL	Q'TY	SIZE	REMARKS

SCALE 1:1	UNIT MM	MODEL NO
		ART 1325 F 1"
3 RD ANGEL PROJECTION	DWG. NO.	AB-0410007
DATE 2019.04.10	TYPE	STAINLESS STEEL SHOCK ARRESTOR
DRWN	DSND	CHKD
APPD	Albion Valves (UK) Limited	

(Drawing, dimensions and description)

The statements made herein are certified to be true and correct.

Name Mat Weiss Title Executive Director

Certification Date June 26, 2019 Test No. 80002684-6 [CL]

Expiration Date June 26, 2024