



27 June 2016

PBM, INC.  
1070 Sandy Hill Rd.,  
Irwin, PA-15642

JL/YS  
OPN: 3754100  
Task No.: T1531171

Attention: Mr. Shawn Opfer

Subject: **Product Design Assessment (PDA) Revision**  
ANSI Flanged fire safe 2 Way ball valves  
Models: AN Series 6 & TN Series 6 (1/2" to 12")  
Reference: PDA Certificate No. 15-HS1371427-PDA dated 13 July 2015  
Enclosures as per attached list

Gentlemen:

We have your application for type approval revision dated 03 June 2016 together with the enclosures listed below. Having reviewed the enclosures in accordance with the following Rules/standards,

1. ABS Rules for Building and Classing Steel Vessels 2016
2. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length 2016
3. ABS Rules for Building and Classing Offshore Support Vessels 2016
4. ABS Rules for Building and Classing Mobile Offshore Drilling Units 2016
5. API Std 607 Fire Test for Quarter-turn Valves and Valves Equipped with Nonmetallic Seats, (6<sup>th</sup> Ed., 2010)
6. ASME B16.34-2013 Valves – Flanged, Threaded and Welding End

we are pleased to advise that we have completed the design assessment phase of the type approval process.

Enclosed is your original copy of the **Certificate of Design Assessment (PDA)**. Please read the pages attached to the certificate to be sure that you understand the scope and conditions of the validity of the certificate. We recommend that you monitor the ABS Rules and other specifications used in the approval. These Rules and specifications often change on an annual basis, and you must comply with the new Rules and specifications in order for the product to be used on an ABS classed vessel or facility contracted under the new Rules or specifications.

Since the original certificate is multi-colored, we have no objections to unlimited black and white photocopies of the certificate being distributed. As you already know, your details are published on our web site and can also be downloaded there.

An electronic copy of the documents, appropriately stamped is available through the ABS Eagle Construct Engineering Manager (O2E), Web Portal.



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We have received your declaration stating that the materials used in the system indicated in the submittal are free from Asbestos.

Please find enclosed our invoice to cover the cost of the design assessment phase of the type approval process.

If you should have any comments relative to the scope and conditions of the assessment of your product, or if we can be of any further assistance, please do not hesitate to contact us. We do appreciate your continued confidence in the services that ABS provides.

Very truly yours,

Roy H. Bleiberg  
Vice President of Engineering  
ABS Americas

By:   
Angel Moscoso  
Managing Principal Engineer – Systems Group  
Ship Engineering Department

cc: ABS Celeveland – w/inv. (O2E).



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Drawings List

<b>Engineering Office:</b>	Houston SED Machinery - Piping & Electrical Sys.	
<b>Submitter:</b>	PBM, INC. (784844)	
<b>Drawing No</b>	<b>Revision No</b>	<b>Drawing Title</b>
6th Ed - 2.0 inch - Class 150 - C276 HAST - TFM - ANC-H6L-G-----P052	-	Fire Test Report ANSI/API Standard 607, 6th Edition, 2010 ISO 10497: 2010
AN76 TN76 TypeApproval Application Form - NEW Signed	-	TypeApproval Application
6th Ed - 2.0 inch - Class 150 - 316 SS - TFM - ANH-H6L-G-P052 - March 30	-	Fire Test Report ANSI/API Standard 607, 6th Edition, 2010 ISO 10497: 2010
6th Ed - 2.0 inch - Class 150 - WCB CS - TFM - ANE-H6L-G-----P052 - Se	-	Fire Test Report ANSI/API Standard 607, 6th Edition, 2010 ISO 10497: 2010
ABS Design Assessment AN_TN6	-	ABS Design Assessment AN_TN6
ANH-C6L-G---04	0	1/2" anh-c6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm primary
ABS Type Approval AN_TN6	-	ABS Type Approval AN_TN6
ANH-D6L-G---04	0	3/4" anh-d6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm primary
ANH-E6L-G---04	0	1" anh-e6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm primary
ANH-H6L-G---04	0	2" anh-h6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm primary
ANH-G6L-G---04	0	1 1/2" anh-g6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm prima
ANH-J6L-G---02	0	2 1/2" anh-j6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm prima
ANH-K6L-G---04	0	3" anh-ke6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm primary
ANH-L6L-G	0	4" anh-l6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm primary
ANH-M6L-Z---08	0	6" anh-m6 2-way api-607 (4th ed) ansi ball valve with 150# r.f. flange end connections tfm primary

**AMERICAS DIVISION**

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Correspondence	-	Email 03-June-2016 subj: QUOTE and Request for Application: Type Approval Expansion Request
PBM, Inc ISO Certificate 0106267 exp April 2017	-	PBM, Inc ISO Certificate 0106267 exp April 2017
Marine Brochure LT-2D pbm13 0	-	Marine Brochure LT-2D pbm13 0
PO 46325	-	Purchase Order
AN--D503L--I	2	3/4" AN-D5 VALVE END FITTING
AN--C503L--I	2	1/2" AN-C5 VALVE END FITTING
AN--C501L--I	3	1/2" AN-C5 VALVE BODY
AN--E501L-RI	4	1" AN SERIES 5, 150# BODY CASTING
AN--D501L--I	1	3/4" AN-D5 VALVE BODY
AN--G503L-RI	3	1-1/2" AN SERIES 5, 150# END FITTING CASTING
AN--G501L-RI	4	1-1/2" AN SERIES 5, 150# BODY CASTING
AN--H503L-RI	3	2" AN SERIES 5, 150# END FITTING CASTING
AN--H501L-RI	4	2" AN SERIES 5, 150# BODY CASTING
AN--K501L-RI	3	3" AN SERIES 5, 150# BODY CASTING
AN--L501L-RI	2	4" AN SERIES 5, 150# BODY CASTING
AN--K503L-RI	2	3" AN SERIES 5, 150# END FITTING CASTING
AN--M501L-RI	4	6" AN SERIES 5, 150# BODY CASTING
AN--L503L-RI	3	4" AN SERIES 5, 150# END FITTING CASTING
AN--M503L-RI	2	6" AN SERIES 5, 150# END FITTING CASTING
AN--E501L--I	2	1" AN-E5 150# R.F. FLANGE BODY
AN--G501L--I	3	1-1/2" AN-G5 150# R.F. FLANGED BODY
AN--E503L-RI	4	1" AN SERIES 5, 150# END FITTING CASTING
AN--M501L--I	1	6" AN-M5 BODY
AN--E503L--I	3	1" AN-E5 150# R.F. FLANGE END FITTING
AN--M503L--I	1	6" AN-M5 END FITTING
AN--L503L--I	4	4" AN-L5 150# FLANGE END FITTING
AN--L501L--I	4	4" AN-L5 150# R.F. FLANGED BODY
AN--K501L--I	3	3" AN-K5 BODY

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AN--K503L--I	4	3" AN 150# END FITTING
AN--J501L9-B	0	2-1/2" AN-J5 150# FLANGED BODY
AN--J503L9-B	0	2-1/2" AN-J5 END FITTING
AN--G503L--I	2	1-1/2" AN-G5 150# F.F. FLANGE END FITTING
AN--H503L--I	2	2" AN-H5 150# R.F. FLANGE END FITTING
AN--H501L-- I	5	2" AN-H5 150# R.F. FLANGED BODY
Correspondence	-	Fire test
Correspondence	-	Applicable size