



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 11/SEP/2019. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 01/SEP/2019 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

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ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Valve, Composite Ball Valve
Model Name(s): Series 400-M, Series 405M

Presented to:

PUREFLEX, AN ANDRONACO INDUSTRIES COMPANY
4885 BROADMOOR AVENUE
KENTWOOD
United States

Intended Service:

Marine & Offshore Applications.

Description:

Series 400-M Ball valve manufactured from Derakane 470/411 vinyl ester resin reinforced with glass fibers. Series 405-M Ball valve manufactured from Derakane 470/411 vinyl ester resin reinforced with Carbon graphite fibers. Both models are designed for use in hazardous areas and accepted in accordance with 4-6-3/5.15 and 4-6-3/7.7 of the Rules with regard to electrical conductivity - static dissipative.

Tier:

2

Ratings:

Service Temperature Limits: -50 °F to 275 °F. 1", 2" Dia. - Max Working Pressure: 275 psi. 3", 4" Dia. - Max Working Pressure: 250 psi. 4", 6" Dia - Max Working Pressure: 150 psi.

Service Restrictions:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. (Hydrotest certificate to be submitted upon request). 1. Usage limited to Applications where "No Fire Endurance Test Required" by Table 4-6-3/1 of the ABS Steel Vessels Rules and is to be fitted on only open Decks and within Tanks, Cofferdams, Void Spaces, Pipe Tunnels and Ducts as No Fire Endurance Test or Flame Spread Test has been carried out in accordance with 4-6-3/5.11 and 4-6-3/5.13 of the ABS Steel Vessels Rules. See attached pdf file. 2. Not to be used in the Fire Main. 3. Manufacturer's Chemical Guide is to be referenced for

Comments: Chemical Applications and Temperature Limits. 4. Not to be used as shell valve.
 The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Valves are to be installed with the manufacturer's supplied bonding wires fitted to the satisfaction of the attending Surveyor. All valves are to be hydrostatically tested by the manufacturer to the pressure required by the pressure rating of the valve. The certificate of test is to be submitted upon request.

Notes / Documentation: Smithers Quality Assessments Inc. (SQA) ISO 9001:2008 Certificate No. 10.203.2 dated 19 Jul. 2013 (expires 18 Jul. 2016). Design Specification, PureFlex Series 400 Test Procedures Rev. 06/10/10, Drawing No.: 400 - M Series Rev. 0 400 405 - M Series Ball Valve Assembly, 400 - M Kit Assembly Rev. 0, 400xxD00100000 Rev. 0 400 Series 1" Ball Valve Body, 400xxD00150000 Rev. 0 400 Series Ball Valve 1-1/2: Body, 400xxD00200000 Rev. 0 400 Series 2" Ball Valve Body, 400xxD00300000 Rev. 0 400 Series 3" Ball Valve Body, 400xxD00400000 Rev. 0 400 Series 4" Ball Valve Body, 400xxD00600000 Rev. 0 400 Series 6" Ball Valve Body.

Term of Validity: This Product Design Assessment (PDA) Certificate 14-HS1209421B-PDA, dated 02/Sep/2014 remains valid until 01/Sep/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules: Rules for Conditions of Classification, Part 1 - 2014 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: Steel Vessels 4-6-3/5.1, 4-6-3/5.15, 4-6-3/5.5, 4-6-3/5.7, 4-6-2/5.9, 4-6-2/5.9.4, 4-6-3/5.9, 4-6-3/7.7; Rules for Conditions of Classification, Part 1 - 2014 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: Mobile Offshore Drilling Units;

National Standards: ANSI B16.10, ASME B15.6

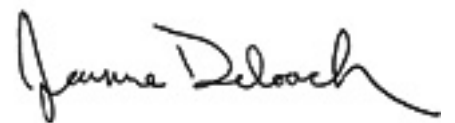
International Standards:

Government Authority:

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	14-HS1209421B-PDA	02/SEP/2014	01/SEP/2019



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.



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Product Name: Valve, Check
Model Name(s): Series 100

Presented to:
PUREFLEX, AN ANDRONACO INDUSTRIES COMPANY
4885 BROADMOOR AVENUE
KENTWOOD
United States

Intended Service:	Marine & Offshore Applications.
Description:	Series 100 Flanged Ball Check Valve manufactured from Fiberglass or Carbon Graphite Reinforced Vinyl Ester Materials. Solid PTFE Ball.
Tier:	2
Ratings:	Service Temperature Limit: 77 °F 1" & 1½" Dia. - Max Working Pressure: 275 psi. 2" & 3" Dia - Max Working Pressure: 250 psi; 4" & 6" Dia - Max Working Pressure: 150 psi;
Service Restrictions:	Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. (Hydrotest certificate to be submitted upon request). 1. Usage limited to Applications where "No Fire Endurance Test Required" by Table 4-6-3/1 of the ABS Steel Vessels Rules and is to be fitted on only open Decks and within Tanks, Cofferdams, Void Spaces, Pipe Tunnels and Ducts as No Fire Endurance Test or Flame Spread Test has been carried out in accordance with 4-6-3/5.11 and 4-6-3/5.13 of the ABS Steel Vessels Rules. 2. Not to be used in the Fire Main. 3. Manufacturer's Chemical Guide is to be referenced for Chemical Applications and Temperature Limits. 4. Not to be used as shell valve.
Comments:	The Manufacturer has provided a declaration about the control of, or the lack of

Asbestos in this product. Valves are to be installed with the manufacturer's supplied bonding wires fitted to the satisfaction of the attending Surveyor. All valves are to be hydrostatically tested by the manufacturer to the pressure required by the pressure rating of the valve. The certificate of test is to be submitted upon request.

Notes / Documentation:

Quality Manual 052710, Material Data Sheet 470-300 dated Nov. 2004, Drawing No. (CAD Reference No.): 100xxD00100000 Rev. A 1" 100 Series Check Valve Assembly, 100xxD00150000 Rev. 0 1-1/2" 100 Series Check Valve Assembly, 100XX-A-0 Rev 0 2" 100 Series Check Valve Assembly/ Bill of Mat'l, 100xxD00300000 Rev. 0 3" 100 Series Check Valve Assembly, 100xxD00400000 Rev. 0 4" 100 Series Check Valve Assembly, 100xxD00600000 Rev. 0 6" 100 Series Check Valve Assembly, Product Catalog 29084, Ashland Safety Data Sheet (MSDS No. R0402383 ver. 1.12) dated 12 Nov. 2009, Smithers Quality Assessments Inc (SQA) ISO 9001:2008 Certificate No. 10.203.2 dated 19 Jul. 2013 (expires 18 Jul. 2016).

Term of Validity:

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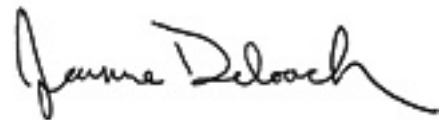
ABS Rules:

Rules for Conditions of Classification, Part 1 - 2014 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: Steel Vessels 4-6-2/5.9, 4-6-3/5.15 and 4-6-3/7.7, 4-6-3/5.1, 4-6-3/5.5, 4-6-3/5.7, 4-6-3/5.9, 4-6-2/5.9.4; Rules for Conditions of Classification, Part 1 - 2014 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: Mobile Offshore Drilling Units;

National Standards:
International Standards:
Government Authority:
EUMED:
Others:

None.

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	14-HS1209421A-PDA	02/SEP/2014	01/SEP/2019



ABS Programs

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Product Name: Valve, Composite Butterfly Valve
Model Name(s): Series 890

Presented to:
PUREFLEX, AN ANDRONACO INDUSTRIES COMPANY
4885 BROADMOOR AVENUE
KENTWOOD
United States

Intended Service:	Marine & Offshore Applications - Sea Water, Fresh Water, Sanitary Water, Compressed Air, Solvents, Scrubber Effluent, Brine.
Description:	14" though 36" diameter Series 890 Wafer and Lug Butterfly Valves Manufactured from Derakane 411/470.
Tier:	2
Ratings:	Service Temperature Limits: -50 °F to 250 °F. Short term exposures to 300 °F are acceptable. Maximum Allowable Pressure: 150 psi.
Service Restrictions:	Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. (Hydrotest certificate to be submitted upon request). 1. Usage limited to applications where "no fire endurance test required" by Table 4-6-3/1 of the ABS Steel vessel Rules and is to be fitted on only open decks and within tanks, cofferdams, void spaces, pipe tunnels and ducts as no fire endurance test or flame spread test has been carried out in accordance with 4-6-3/5.11 and 4-6-3/5.13 of the ABS Steel Vessel Rules. 2. Not to be used in the fire main. 3. Manufacturer's chemical guide is to be referenced for chemical applications and temperature limits. 4. Not to be used as shell valve.
Comments:	The Manufacturer has provided a declaration about the control of, or the lack of

Asbestos in this product. Valves are to be installed with the manufacturer's supplied bonding wires fitted to the satisfaction of the attending Surveyor. All valves are to be hydrostatically tested by the manufacturer to the pressure required by the pressure rating of the valve. The certificate of test is to be submitted upon request.

Notes / Documentation:

Drawing No.: 3141103 Rev. E Butterfly Valve Assy 14" Series 890, 2402 Rev. 0 Butterfly Valve Ass'y 16: Series 890, 3181103 Rev. D Butterfly Valve Assembly 18" Series 890, 3201103 Rev. 0 Butterfly Valve Assembly 20" Series 890, 3241103 Butterfly Valve Assembly 24" Series 890, 890 Series Design Calculations, Product Catalog Series 890; Installation, Maintenance and Operating Instructions dated 8 February 2008, Smithers Quality Assessment (SQA) ISO 9001:2008 Certificate No. 10.203.2 dated 19 Jul. 2013 (expires 18 Jul. 2016), 890 Brochure.

Term of Validity:

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ABS Rules:

Rules for Conditions of Classification, Part 1 - 2014 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: Steel Vessels 4-6-3/5.1, 4-6-3/5.5, 4-6-3/5.7, 4-6-2/5.9, 4-6-3/5.15, 4-6-3/7.7, 4-6-3/5.9, 4-6-2/5.9.4; Rules for Conditions of Classification, Part 1 - 2014 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: Mobile Offshore Drilling Units;

National Standards:

ASME B31.3

International Standards:**Government Authority:****EUMED:****Others:**

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	14-HS1209421D-PDA	02/SEP/2014	01/SEP/2019



ABS Programs

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Product Name: Valve, Composite Butterfly Valve
Model Name(s): Series 860-M, Series 800-M

Presented to:
PUREFLEX, AN ANDRONACO INDUSTRIES COMPANY
4885 BROADMOOR AVENUE
KENTWOOD
United States

Intended Service: Marine & Offshore Applications.

Description: 2" though 12" diameter Series 860-M wafer and lug butterfly valves manufactured from Durcor-62 Designed for use in hazardous areas (except valves with lined discs) and accepted in accordance with 4-6-3/5.15 and 4-6-3/7.7 of the Rules with regard to electrical conductivity - static dissipative.

Tier: 2

Ratings: Service Temperature Limits: - 60 °F to 250 °F. Maximum Allowable Pressure: 150 psi;

Service Restrictions: Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. (Hydrotest Certificate to be submitted upon request). 1. Usage limited to Applications where "No Fire Endurance Test Required" by Table 4-6-3/1 of the ABS Steel Vessel Rules and is to be fitted on only open Decks and within Tanks, Cofferdams, Void Spaces, Pipe Tunnels and Ducts as No Fire Endurance Test or Flame Spread Test has been carried out in accordance with 4-6-3/5.11 and 4-6-3/5.13 of the ABS Steel Vessels Rules. 2. Not to be used in the Fire Main. 3. Manufacturer's Chemical Guide is to be referenced for Chemical Applications and temperature limits. 4. Not to be used as shell valve.

Comments: The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Valves (with unlined discs) are to be installed with the manufacturer's supplied bonding wires fitted to the satisfaction of the attending Surveyor. All valves are to be hydrostatically tested by the manufacturer to the pressure required by the pressure rating of the valve. The certificate of test is to be submitted upon request.

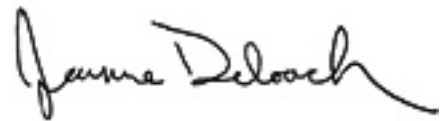
Notes / Documentation: PureFlex Series 800 & 860 Product Catalogs, Drawing No.: 860-M Series Rev. 0 860 - M series Assembly Kit, 860xxQC0200000 Rev. B 2" 860 Series Butterfly Valve Machined Body, 860xxQC0300000 Rev. B 3" 860 Series Butterfly Valve Machined Body, 860xxQC0400000 Rev. B 4" 860 Series Butterfly Valve Machined Body, 860xxQC0600000 Rev. A 6" 860 Series Butterfly Valve Machined Body, 860xxQC0800000 Rev. A 8" 860 Series Butterfly Valve Machined Body, 860xxQC1000000 Rev. B 10" 860 Series Butterfly Valve Machined Body, 860xxQC1200000 Rev. B 12" 860 Series Butterfly Valve Machined Body.

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ABS Rules: Rules for Conditions of Classification, Part 1 - 2014 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: Steel Vessels 4-6-3/5.15, 4-6-2/5.9, 4-6-2/5.9.4, 4-6-3/7.7, 4-6-3/5.1, 4-6-3/5.5, 4-6-3/5.7, 4-6-3/5.9; Rules for Conditions of Classification, Part 1 - 2014 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: Mobile Offshore Drilling Units;

National Standards:
International Standards:
Government Authority:
EUMED:
Others: None.

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