



CERTIFICATE NUMBER  
15-HS1358627-PDA

DATE  
23 Jul 2015

ABS TECHNICAL OFFICE  
Houston SED Machinery - Piping  
& Electrical Sys.

# CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of  
**PARKER HANNIFIN CORPORATION INSTRUMENTATION  
PRODUCTS DIVISION AUTOCLAVE ENG. OPER.**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Instrumentation Fittings**

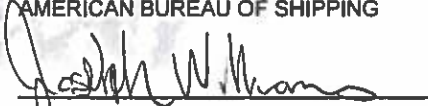
Model: **20FX4466, CLX4400, CTX4440, CXX4444, 20UFX4466, 20BFX4466; 20FX6666, CLX6600, CTX6660, CXX6666, 20UFX6666, 20BFX6666; 20FX9966, CLX9900, CTX9990, CXX9999, 20UFX9966, 20BFX9966; 20F...**

This Product Design Assessment (PDA) Certificate 15-HS1358627-PDA, dated 23/Jul/2015 remains valid until 22/Jul/2020 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.

AMERICAN BUREAU OF SHIPPING  
  
Joseph J. Williams  
Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A35.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

**PARKER HANNIFIN CORPORATION INSTRUMENTATION PRODUCTS DIVISION AUTOCLAVE**

**ENG. OPER.**

8325 HESSINGER DRIVE

ERIE PA

United States 16509-4679

Telephone: 814-860-5700

Fax: 814-866-7748

Email: david.callaghan@parker.com

Web: www.autoclave.com

**Tier: 2 - PDA Issued**

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**Product:** Instrumentation Fittings

**Model:** 20FX4466, CLX4400, CTX4440, CXX4444, 20UFX4466, 20BFX4466;  
20FX6666, CLX6600, CTX6660, CXX6666, 20UFX6666, 20BFX6666;  
20FX9966, CLX9900, CTX9990, CXX9999, 20UFX9966, 20BFX9966;  
20FX12, CLX12, CTX12, CXX12, 20BFX12, 20UFX12;  
20FX16, CLX16, CTX16, CXX16, 20BFX16, 20UFX16;  
15FX24, CLX24, CTX24, CXX24, 15BFX24, 15UFX24;

**Intended Service:**

Offshore Application: Process Support in Floating Offshore installations (i.e. Methanol Piping)

**Description:**

Pressure fittings, Series Medium Pressure coned and threaded fittings, are designed for use with Series 20 SM and 15 SM medium pressure valves and Parker Autoclave Engineers medium pressure tubing. They incorporate medium pressure coned and threaded connections with orifices sized to match the high-flow Series 20 SM and 15 SM valves. Tubing connection component and fittings: Glands, Collars, Elbow, Tee, Cross, Straight Coupling, union coupling, bulkhead coupling.

Fitting Materials: ASTM A276 or ASME SA-479 Strain Hardened Level II, ASTM 240 or ASME SA-182.

**Rating:**

Sizes: 1/4", 3/8", 9/16", 3/4", 1", 1-1/2"

20 SM: Design Pressure 20,000psi @ 100 deg F

Sizes: 1/4", 3/8", 9/16", 3/4", 1"

Models: CGLX40, CCLX40, CLX4400, CTX4440, CXX4444, 20FX4466, 20BFX4466

CGLX60, CCLX60, CLX6600, CTX6660, CXX6666, 20FX6666, 20BFX6666

CGLX90, CCLX90, CLX9900, CTX9990, CXX9999, 20FX9999, 20BFX9999

CGLX120, CCLX120, CLX12, CTX12, CXX12, 20FX12, 20BFX12

CGLX160, CCLX160, CLX16, CTX16, CXX16, 20FX16, 20BFX16

15 SM: Design Pressure 15,000psi @ 100deg F

Sizes: 9/16", 3/4", 1", 1 1/2"

Models: CGLX240, CCLX240, CLX24, CTX24, CXX24, 15FX24, 15BFX24

CGLX90, CCLX90, CLX9900, CTX9990, CXX9999, 20FX9999, 20BFX9999

CGLX120, CCLX120, CLX12, CTX12, CXX12, 20FX12, 20BFX12

CGLX160, CCLX160, CLX16, CTX16, CXX16, 20FX16, 20BFX16

For complete design ratings see attached components list

**Service Restriction:**

1) 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.

2) Until completion of Type approval process and to fully comply with the applicable Rules, the result of hydrostatic tests is to be provided by the Manufacturer when required by listed Rules.

**Comments:**

1)The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**PARKER HANNIFIN CORPORATION INSTRUMENTATION PRODUCTS DIVISION AUTOCLAVE**

**ENG. OPER.**

8325 HESSINGER DRIVE

ERIE PA

United States 16509-4679

Telephone: 814-860-5700

Fax: 814-866-7748

Email: david.callaghan@parker.com

Web: www.autoclave.com

**Tier: 2 - PDA Issued**

2) All Fittings are to bear the trademark of the Manufacturer legibly stamped or cast on the exterior of the tubing and fittings and also the primary pressure rating at which the manufacturer guarantees the valves & fittings to meet the requirements of the standard.

**Notes/Drawing/Documentation:**

Drawing No. 10A-2850, Control Drawing, Revision: -, Pages: 1  
Drawing No. 10A-2854, I OD Tubing Gland and Collar, Revision: 15, Pages: 1  
Drawing No. 10A-2855, Tubing End Prep and Female Conn, Revision: 5, Pages: 1  
Drawing No. 10A-2856, Tubing End Prep and Female Conn, Revision: 4, Pages: 1  
Drawing No. 10A-2857, Tubing End Prep and Female Conn, Revision: 5, Pages: 1  
Drawing No. 10A-2858, Tubing End Prep and Female Conn, Revision: 7, Pages: 1  
Drawing No. 10A-2859, I Tubbing End Prep Female Conn, Revision: 8, Pages: 1  
Drawing No. 10A-2862, Coupling Detail, Revision: 4, Pages: 1  
Drawing No. 10A-2863, Coupling Detail, Revision: 4, Pages: 1  
Drawing No. 10A-2864, Coupling Detail, Revision: 3, Pages: 1  
Drawing No. 10A-2865, Coupling, Revision: 5, Pages: 1  
Drawing No. 10A-2866, Coupling Detail, Revision: 5, Pages: 1  
Drawing No. 10A-2867, Bulkhead Coupling and Nut, Revision: -, Pages: 1  
Drawing No. 10A-2868, Bulkhead Coupling and Nut, Revision: 6, Pages: 1  
Drawing No. 10A-2869, Bulkhead Coupling and Nut, Revision: 6, Pages: 1  
Drawing No. 10A-2870, Bulkhead Coupling and Nut, Revision: 6, Pages: 1  
Drawing No. 10A-2871, Bulkhead Coupling and Nut, Revision: 9, Pages: 1  
Drawing No. 10A-2886, Elbow Med Pressure, Revision: 5, Pages: 1  
Drawing No. 10A-2887, Elbow Med Pressure, Revision: 7, Pages: 1  
Drawing No. 10A-2888, Elbow Med Pressure, Revision: 6, Pages: 1  
Drawing No. 10A-2889, Elbow Med Pressure, Revision: 5, Pages: 1  
Drawing No. 10A-2890, Elbow Med Pressure CLX 16, Revision: 5, Pages: 1  
Drawing No. 10A-2891, Tee Med Pressure CTX4440, Revision: 6, Pages: 1  
Drawing No. 10A-2892, Tee Med Pressure CTX6660, Revision: 4, Pages: 1  
Drawing No. 10A-2893, Tee Med Pressure, Revision: 5, Pages: 1  
Drawing No. 10A-2894, Tee Med Pressure, Revision: 5, Pages: 1  
Drawing No. 10A-2895, Tee Med Pressure, Revision: 5, Pages: 1  
Drawing No. 10A-2896, Body Cross Med Pressure, Revision: 6, Pages: 1  
Drawing No. 10A-2897, Body Cross Med Pressure, Revision: 5, Pages: 1  
Drawing No. 10A-2898, Body Cross Med Pressure, Revision: 4, Pages: 1  
Drawing No. 10A-2899, Body Cross Med Pressure, Revision: 4, Pages: 1  
Drawing No. 10A-2900, Body Cross Med Pressure, Revision: 4, Pages: 1  
Drawing No. 10F-1832, Conn Detail, Revision: -, Pages: 1  
Drawing No. 10F-1840, End Prep, Revision: -, Pages: 1  
Drawing No. 10F-1852, Collar Med Pressure, Revision: -, Pages: 1  
Drawing No. 10F-1853, Gland Med Pressure, Revision: 1, Pages: 1  
Drawing No. 10F-4086, Coupling, Revision: -, Pages: 1  
Drawing No. 10F-5085, Bulkhead Coupling, Revision: -, Pages: 1  
Drawing No. 20D-1350, Cross Med Pressure, Revision: 1, Pages: 1  
Drawing No. 20d-0750, Tee Med Pressure, Revision: 4, Pages: 1  
Drawing No. 20d-0784, Elbow CLX24, Revision: 2, Pages: 1  
Drawing No. SF1000CX10 Fittings 1, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF1000CX20 Fittings 1, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF1500CX10 Fittings 1, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF250CX Fittings, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF375CX Fittings, MP Calculations, Revision: -, Pages: 1

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**ENG. OPER.**

8325 HESSINGER DRIVE

ERIE PA

United States 16509-4679

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Fax: 814-866-7748

Email: david.callaghan@parker.com

Web: www.autoclave.com

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Drawing No. SF562CX10 Fittings, MP Calculations, Revision: -, Pages: 1

Drawing No. SF562CX20 Fittings, MP Calculations, Revision: -, Pages: 1

Drawing No. SF750CX10 Fittings, MP Calculations, Revision: -, Pages: 1

Drawing No. SF750CX20 Fittings, MP Calculations, Revision: -, Pages: 1

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 15-HS1358627-PDA, dated 23/Jul/2015 remains valid until 22/Jul/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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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.

**STANDARDS**

**ABS Rules:**

Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4

Rules for Building and Classing 2015 Facilities on Offshore Installations 1-1-4/9.7, 1-1-A2, 1-1-A3, 3-4/1

**National:**

2014, ASME B31.3

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA



CERTIFICATE NUMBER  
15-HS1358627-PDA-DUP

DATE  
23 Jul 2015

ABS TECHNICAL OFFICE  
Houston SED Machinery - Piping  
& Electrical Sys.

# CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of **PARKER HANNIFIN MANUFACTURING IRELAND LIMITED** assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Instrumentation Fittings**

Model: **20FX4466, CLX4400, CTX4440, CXX4444, 20UFX4466, 20BFX4466; 20FX6666, CLX6600, CTX6660, CXX6666, 20UFX6666, 20BFX6666; 20FX9966, CLX9900, CTX9990, CXX9999, 20UFX9966, 20BFX9966; 20F...**

This Product Design Assessment (PDA) Certificate 15-HS1358627-PDA-DUP, dated 23/Jul/2015 remains valid until 22/Jul/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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AMERICAN BUREAU OF SHIPPING

  
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Jeanne E. Delbach  
Manager

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).



**PARKER HANNIFIN MANUFACTURING IRELAND LIMITED**  
WHITEMILL INDUSTRIAL ESTATE  
WEXFORD  
Ireland  
Telephone: 011-353-53-9141566  
Fax:  
Email: liam.oconnor@parker.com  
Web: www.autoclave.com

Tier: 2 - PDA Issued

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**Product:** Instrumentation Fittings

**Model:** 20FX4466, CLX4400, CTX4440, CXX4444, 20UFX4466, 20BFX4466;  
20FX6666, CLX6600, CTX6660, CXX6666, 20UFX6666, 20BFX6666;  
20FX9966, CLX9900, CTX9990, CXX9999, 20UFX9966, 20BFX9966;  
20FX12, CLX12, CTX12, CXX12, 20BFX12, 20UFX12;  
20FX16, CLX16, CTX16, CXX16, 20BFX16, 20UFX16;  
15FX24, CLX24, CTX24, CXX24, 15BFX24, 15UFX24;

**Intended Service:**

Offshore Application: Process Support in Floating Offshore installations. (i.e. Methanol Piping)

**Description:**

Pressure fittings, Series Medium Pressure coned and threaded fittings, are designed for use with Series 20 SM and 15 SM medium pressure valves and Parker Autoclave Engineers medium pressure tubing. They incorporate medium pressure coned and threaded connections with orifices sized to match the high-flow Series 20 SM and 15 SM valves. Tubing connection component and fittings: Glands, Collars, Elbow, Tee, Cross, Straight Coupling, union coupling, bulkhead coupling.  
Fitting Materials: ASTM A276 or ASME SA-479 Strain Hardened Level II, ASTM 240 or ASME SA-182.

**Rating:**

Sizes: 1/4", 3/8", 9/16", 3/4", 1", 1-1/2"

20 SM: Design Pressure 20,000psi @ 100 deg F

Sizes: 1/4", 3/8", 9/16", 3/4", 1"

Models: CGLX40, CCLX40, CLX4400, CTX4440, CXX4444, 20FX4466, 20BFX4466  
CGLX60, CCLX60, CLX6600, CTX6660, CXX6666, 20FX6666, 20BFX6666  
CGLX60, CCLX90, CLX9900, CTX9990, CXX9999, 20FX9999, 20BFX9999  
CGLX120, CCLX120, CLX12, CTX12, CXX12, 20FX12, 20BFX12  
CGLX160, CCLX160, CLX16, CTX16, CXX16, 20FX16, 20BFX16

15 SM: Design Pressure 15,000psi @ 100deg F

Sizes: 9/16, 3/4", 1", 1 1/2"

Models: CGLX240, CCLX240, CLX24, CTX24, CXX24, 15FX24, 15BFX24  
CGLX90, CCLX90, CLX9900, CTX9990, CXX9999, 20FX9999, 20BFX9999  
CGLX120, CCLX120, CLX12, CTX12, CXX12, 20FX12, 20BFX12  
CGLX160, CCLX160, CLX16, CTX16, CXX16, 20FX16, 20BFX16

For complete design ratings see attached components list

**Service Restriction:**

- 1) 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.
- 2) Until completion of Type approval process and to fully comply with the applicable Rules, the result of hydrostatic tests is to be provided by the Manufacturer when required by listed Rules.

**Comments:**

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) All Fittings are to bear the trademark of the Manufacturer legibly stamped or cast on the exterior of the tubing and

**PARKER HANNIFIN MANUFACTURING IRELAND LIMITED**  
WHITEMILL INDUSTRIAL ESTATE  
WEXFORD  
Ireland  
Telephone: 011-353-53-9141566  
Fax:  
Email: [liam.oconnor@parker.com](mailto:liam.oconnor@parker.com)  
Web: [www.autoclave.com](http://www.autoclave.com)

**Tier: 2 - PDA Issued**

fittings and also the primary pressure rating at which the manufacturer guarantees the valves & fittings to meet the requirements of the standard.

**Notes/Drawing/Documentation:**

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Drawing No. 10A-2867, Bulkhead Coupling and Nut, Revision: -, Pages: 1  
Drawing No. 10A-2868, Bulkhead Coupling and Nut, Revision: 6, Pages: 1  
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Drawing No. 10A-2871, Bulkhead Coupling and Nut, Revision: 9, Pages: 1  
Drawing No. 10A-2886, Elbow Med Pressure, Revision: 5, Pages: 1  
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Drawing No. 10A-2890, Elbow Med Pressure CLX 16, Revision: 5, Pages: 1  
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Drawing No. 10A-2900, Body Cross Med Pressure, Revision: 4, Pages: 1  
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Drawing No. 10F-5085, Bulkhead Coupling, Revision: -, Pages: 1  
Drawing No. 20D-1350, Cross Med Pressure, Revision: 1, Pages: 1  
Drawing No. 20d-0750, Tee Med Pressure, Revision: 4, Pages: 1  
Drawing No. 20d-0784, Elbow CLX24, Revision: 2, Pages: 1  
Drawing No. SF1000CX10 Fittings 1, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF1000CX20 Fittings 1, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF1500CX10 Fittings 1, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF250CX Fittings, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF375CX Fittings, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF562CX10 Fittings, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF562CX20 Fittings, MP Calculations, Revision: -, Pages: 1  
Drawing No. SF750CX10 Fittings, MP Calculations, Revision: -, Pages: 1

**PARKER HANNIFIN MANUFACTURING IRELAND LIMITED**  
WHITEMILL INDUSTRIAL ESTATE  
WEXFORD  
Ireland  
Telephone: 011-353-53-9141566  
Fax:  
Email: liam.oconnor@parker.com  
Web: www.autoclave.com

**Tier: 2 - PDA Issued**

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Drawing No. SF750CX20 Fittings, MP Calculations, Revision: -, Pages: 1

**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4  
Rules for Building and Classing 2015 Facilities on Offshore Installations 1-1-4/9.7, 1-1-A2, 1-1-A3, 3-4/1

**National:**

2014, ASME B31.3

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA