

**REGISTRATION OF A PRESSURE FITTING DESIGN**

12-Aug-22

ABSA  
9410 20th Avenue NW  
Edmonton, AB  
T6N 0A4**Attention: Kristine Trepanier****File Number: 13190 [ 0 F]****Re: Manufacturer: Crane Instrumentation Sampling, Inc.****Item: Valves****Catalog or Drawing: Per Scope of Registration, Product Brochures & Supporting Drawings**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**0C22472.23****Expiry Date: July 5, 2032**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Athan Syrgiannis, P.Eng.  
Codes and Standards Compliance**Remarks:**

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

Conditional upon compliance with the notes on the original ABSA registration.

**STATUTORY DECLARATION**  
**Registration of Fittings**  
Single or Multiple Fitting Designs within one Fitting Category

I, PAUL WRIGHT, ENGINEERING SUPERVISOR  
(name of applicant) (position title) (must be in a position of authority)  
of CRANE INSTRUMENTATION & SAMPLING PFT CORP.  
(name of manufacturer)  
located at 405 CENTURA COURT, SPARTANBURG, SC 29303 USA  
(plant address)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

**CRANE**

**HOKE**

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only one)

- ☒ comply with the requirements of ASME B31.1 & ASME B31.3 which specifies the dimensions, (title of recognized North American Standard)  
materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- ☐ are not covered by the provisions of a recognized North American standard and are therefore  
manufactured to comply with \_\_\_\_\_ as supported by the (title of code of construction or other applicable document)  
attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

**Quality Program Verification and Manufacturing Sites**

A copy of the Quality Certificate from each manufacturing site must be included

| Item # | Product Description, Model or Series | Quality Program | Scope of Certification                                     | Expiry Date | Verifying Organization | Location(s) Plant Name and address           |
|--------|--------------------------------------|-----------------|--|-------------|------------------------|--|
| 1.     | VALVES PER SCOPE OF REGISTRATION     | ISO 9001:2015   | DESIGN, MANUFACTURE, AND ASSEMBLY OF FLUID AND GAS CONTROL | 10/21/2022  | SAI GLOBAL             | 405 CENTURA COURT, SPARTANBURG, SC 29303 USA |
| 2.     |                                      |                 |  |             |                        |  |

In support of this application, the following information, calculations and/or test data are attached:

SCOPE OF REGISTRATION, BURST TEST REPORTS, CALCULATIONS, QC CERTIFICATE

*Paul Wright*

(Signature of the Declarer)

2022-05-02

(Date)

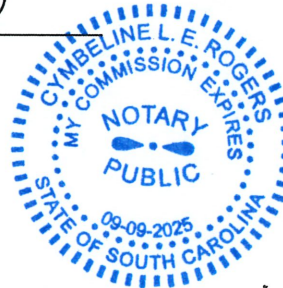
DECLARED before me at Spartanburg in the State of South Carolina  
(city) (province, territory, or state)

this 2nd day of MAY, 2022  
(Month) (Year)

(print) Cymbeline L.E. Rogers  
(a Commissioner of Oaths or Notary Public)

(sign) Cymbeline L.E. Rogers  
(a Commissioner of Oaths or Notary Public)

09/09/2025  
(expiry date (mm/dd/yy))



Commissioner of Oaths / Notary Public in and for:

South Carolina  
(province, territory, or state)

**For ABSA Office Use Only:**

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_.

CRN: \_\_\_\_\_

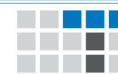
Registered Date: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

Signature: \_\_\_\_\_

(Signature of the Administrator/SCO)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline



**Technical  
Safety Authority  
of Saskatchewan**

Registration No. 0C22472.23

File No. 13190

Registered

Date: August 12, 2022

Expiry Date: July 5, 2032

Codes & Standards Compliance Office


**Table 1\*\* Scope of Fitting Designs**

| Item # | Primary Pressure Bearing / Retaining Component | Material of Construction | Port Connections and Size Range | MDMT | Rated Pressure         |                        | Pressure Class(es) / Schedule(s) | Design Code(s) of Construction | Reference Catalogue (pages) or Drawing(s) |
|--------|--|--------------------------|---------------------------------|------|------------------------|------------------------|----------------------------------|--------------------------------|---|
|        |  |                          |                                 |      | At Ambient Temperature | At Maximum Temperature |                                  |                                |   |
|        |  |                          |                                 |      |                        |                        |                                  |                                |   |
|        |  |                          |                                 |      |                        |                        |                                  |                                |   |
|        |  |                          |                                 |      |                        |                        |                                  |                                |   |

**Table 2 Additional Scope Information**

|   |
|---|
| List/Attach Additional Detail and References (Product Configurations, Options, Illustrations, etc.) |
| Example:  |
| Series X Options  |
|   |

\*\* For additional alternatives of Table 1, refer to Form AB-41a, Guide for Completing Form AB-41

|   |   |   |   |
|---|---|---|---|
| <br>ER-Valves1_CRN | <b>Engineering Report</b><br><br><b>Title Qualification of Hoke Valves by Burst Test and Similarity</b> | <b>REV.</b><br><b>DATE:</b><br><b>PAGE:</b> | <b>B</b><br><b>20-JUN-2022</b><br><b>248 OF 248</b> |
|---|---|---|---|

| SCOPE OF REGISTRATION                            |   |             |                                |  |                    |                             |
|--|---|-------------|--------------------------------|--|--------------------|-----------------------------|
|  |   |             |                                | Maximum Allowable Working Pressure     |                    |                             |
| Hoke Valve Series                                | Main Pressure Bearing Components        | Conn. Sizes | Min. Design Metal Temp. (MDMT) | MDMT $\leq T \leq 100^{\circ}\text{F}$ | At Max. Temp.      | Design Code of Construction |
| 1300   | ASTM A182 / ASME SA-182 F316/L          | Various     | -40°F                          | 5000 PSIG                              | 4440 PSIG @ 400°F  | ASME B31.1<br>ASME B31.3    |
| 2100   | ASTM A479 /<br>ASME SA-479 316/316L SST |             | -65°F                          | 5860 PSIG                              | 4980 PSIG @ 600°F  |                             |
| 2200<br>(P/N STARTS WITH 2215,<br>2225, OR 2232) | ASTM A479 /<br>ASME SA-479 316/316L SST |             | -65°F                          | 4950 PSIG                              | 4615 PSIG @ 450°F  |                             |
| 2218 / 2219                                      | ASTM A479 /<br>ASME SA-479 316/316L SST |             | -100°F                         | 4150 PSIG                              | 3175 PSIG @ 1000°F |                             |
| 2300   | ASTM A479 /<br>ASME SA-479 316/316L SST |             | -40°F                          | 3000 PSIG                              | 1000 PSIG @ 250°F  |                             |
| 3700<br>3800<br>3900                             | ASTM A182 / ASME SA-182 F316/L          |             | -65°F                          | 5000 PSIG                              | 3890 PSIG @ 450°F  |                             |
| 6100<br>6200                                     | ASTM A479 /<br>ASME SA-479 316/316L SST |             | -40°F                          | 5687 PSIG                              | 5587 PSIG @ 350°F  |                             |
| 7022   | ASTM A182 / ASME SA-182 F316/L          |             | 0°F                            | 1500 PSIG                              | 1500 PSIG @ 350°F  |                             |
| 7092   | ASTM A182 / ASME SA-182 F316/L          |             | -20°F                          | 2000 PSIG                              | 2000 PSIG @ 350°F  |                             |

|  |                 |
|--|-----------------|
|  <b>Technical Safety Authority</b><br>of Saskatchewan |                 |
| Registration No.   | 0C22472.23      |
| File No.   | 13190           |
| <input type="button" value="Registered"/>  |                 |
| Date:  | August 12, 2022 |
| Expiry Date:   | July 5, 2032    |
| Codes & Standards Compliance Office  |                 |

This report contains proprietary data. Distribution to parties outside of Crane Instrumentation & Sampling PFT Corp. is prohibited without Engineering approval. Compliance to all export control regulations must be maintained.

**REGISTRATION OF A PRESSURE FITTING DESIGN**

27-Oct-22

ABSA  
9410 20th Avenue NW  
Edmonton, AB  
T6N 0A4**Attention: Kristine Trepanier****File Number: 13325 [ 0 F]****Re: Manufacturer: Crane Instrumentation Sampling, Inc.**  
**Item: Hoke Valves**  
**Catalog or Drawing: Per Scope of Registration (2-FEB-2022) & Supporting Documents**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**0C22472.23                      Expiry Date: July 5, 2032**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Athan Syrgiannis, P.Eng.  
Codes and Standards Compliance**Remarks:**

Addition to existing registration, per scope. Conditional upon compliance with the notes on the original ABSA registration.

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.



**STATUTORY DECLARATION  
Registration of Fittings**  
Single or Multiple Fitting Designs within one Fitting Category

I, PAUL WRIGHT, ENGINEERING SUPERVISOR  
(name of applicant) (position title) (must be in a position of authority)  
of CRANE INSTRUMENTATION & SAMPLING PFT CORP.  
(name of manufacturer)  
located at 405 CENTURA COURT, SPARTANBURG, SC 29303 USA  
(plant address)



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act  
(select only one)

- ☒ comply with the requirements of ASME B31.1 / ASME B31.3 which specifies the dimensions,  
(title of recognized North American Standard)  
materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- ☐ are not covered by the provisions of a recognized North American standard and are therefore  
manufactured to comply with \_\_\_\_\_ as supported by the  
(title of code of construction or other applicable document)  
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| Item # | Product Description, Model or Series | Quality Program | Scope of Certification   | Expiry Date | Verifying Organization | Location(s) Plant Name and address           |
|--------|--------------------------------------|-----------------|--|-------------|------------------------|--|
| 1.     | VALVES PER SCOPE OF REGISTRATION     | ISO 9001:2015   | DESIGN, MANUFACTURE, & ASSEMBLY OF FLUID AND GAS CONTROL VALVES, | 10/21/2023  | SAI GLOBAL             | 405 CENTURA COURT, SPARTANBURG, SC 29303 USA |
| 2.     |                                      |                 |  |             |                        |  |

In support of this application, the following information, calculations and/or test data are attached:

Paul Wright  
(Signature of the Declarer) 2022-07-29  
(Date)

DECLARED before me at Spartanburg in the State of South Carolina  
(city) (province, territory, or state)  
this 29<sup>th</sup> day of July, 2022  
(Month) (Year)

(print) Cymbeline L.E. Rogers  
(a Commissioner of Oaths or Notary Public)

(sign) Cymbeline L.E. Rogers  
(a Commissioner of Oaths or Notary Public)  
9/9/2025  
(expiry date (mm/dd/yy))



Commissioner of Oaths / Notary Public in and for: South Carolina  
(province, territory, or state)

**For ABSA Office Use Only:**

NOTES: \_\_\_\_\_

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_.

CRN: \_\_\_\_\_

Registered Date: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
(Signature of the Administrator/SCO)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline



**Technical  
Safety Authority  
of Saskatchewan**

Registration No. 0C22472.23

File No. 13325

Registered

Date: October 27, 2022

Expiry Date: July 5, 2032

Codes & Standards Compliance Office



### Table 1\*\* Scope of Fitting Designs


[illegible]

Table 2 Additional Scope Information

| Table 2 Additional Scope Information  |
|---|
| List/Attach Additional Detail and References (Product Configurations, Options, Illustrations, etc.) |
| Example:  |
| Series X Options  |

\*\*\* For additional alternatives of Table 1, refer to Form AB-41a, Guide for Completing Form AB-41

Page 3 of 3

|   |   |   |   |
|---|---|---|---|
| <br>ER-Valves2_CRN | <b>Engineering Report</b><br><br><b>Title Qualification of Hoke Valves by Burst Test and Similarity</b> | <b>REV.</b><br><b>DATE:</b><br><b>PAGE:</b> | -<br><b>2-FEB-2022</b><br><b>104 OF 104</b> |
|---|---|---|---|

| SCOPE OF REGISTRATION                         |   |   |                                   |                                    |                   |                             |
|---|---|---|-----------------------------------|------------------------------------|-------------------|-----------------------------|
| Hoke Valve Series                             | Main Pressure<br>Bearing Components           | Conn. Sizes                                     | Min. Design<br>Metal Temp. (MDMT) | Maximum Allowable Working Pressure |                   | Design Code of Construction |
|   |   |   |                                   | MDMT ≤ T ≤ 100°F                   | At Max. Temp.     |                             |
| 7100  | Body: ASME SA-479 / ASTM A479<br>S31600/31603 | Female NPT<br>(ALL)<br>(71_F_Y)                 | -20°F                             | 3617 PSIG                          | 3433 PSIG @ 425°F | ASME B31.1<br>ASME B31.3    |
|   |   | Gyrolok End<br>(ALL)<br>(71_G_Y or<br>71_G_YMM) |                                   | 4261 PSIG                          | 4186 PSIG @ 425°F |                             |
| 7200  |   | ALL   | -20°F                             | 5000 PSIG                          | 5000 PSIG @ 350°F |                             |
| 79<br>(7911G4Y, 7911F4Y,<br>7931G4Y, 7931F4Y) |   | 1/4" Gyrolok<br>& 1/4" Female<br>NPT            | 0°F                               | 2000 PSIG                          | 2000 PSIG @ 350°F |                             |
| DV1   |   | ALL   | -40°F                             | 3600 PSIG                          | 3600 PSIG @ 400°F |                             |


**Technical  
Safety Authority  
of Saskatchewan**

Registration No. 0C22472.23

File No. 13325

Date: October 27, 2022

Expiry Date: July 5, 2032

Codes & Standards Compliance Office

This report contains proprietary data. Distribution to parties outside of Crane Instrumentation & Sampling Inc. is prohibited without Engineering approval. Compliance to all export control regulations must be maintained.