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| IEW BRUNSWICK<br>IUNAVUT  | STATUTORY DECLARATIC<br>NOVA SCOTIA<br>YUKON   | PRINCE EDWARD ISLAND<br>NORTHWEST TERRITORIES  | NEWFOUNDLAND AND LAURADOR  |
|---|--|--|--|
| MANUFACTURERS NAM   | AE: Swagelok Company   |  |  |
| MANUFACTURERS ADD   |  | Solon, Ohio 44139-3492   |  |
| PLANT LOCATIONS: I  | leadquarters: 29500 Solon R  | Road, Solon, Ohio 44139-3492 (See  | Attachment A)  |
| CATEGORY O  | F FITTINGS TO BE REGISTERED  | CIRCLE ONE CATEGORY ONLY   | TILLE OF THE STANDARD OF CONSTRUCTION  |
| A Pipe fillings, including  | couplings, tees, sloows, Ys, plugs,  |  |  |
|   |  | chions, pipe caps, or reducers   | British Standards Institution  |
| Valves: all line valves<br>D Expansion joints, flavil   | ble connactions, and hose assembl  | last all history   |  |
| E Strainers, filters, separ   | ators, and steam trans   | CONTRACTOR STATISTICS  |  |
| F Measuring devices, inc<br>pressure transmitters   | luding pressure gauges, level gaug   | jos, sight glasses, levels, or   |  |
| G Certified capacity-rate   | d pressure relief devices accoptable   | e as primary over pressure protection on   |  |
| DOUGLE, DIGRADIO AGER   | 819. DIDIDO 900 103/010 DIDOS  |  |  |
| N Nuclear components  | nponents that do not fall into one of  | the above catagories   |  |
| HOW MANUFACTURE   | CIOSE 1 LI CIESE 2 LI CIESE 3 LI,  | (Moeting AECB or ASME requirements)  |  |
|   | BAME, THADEMARA, UR LOG  | O AS IT WILL APPEAR ON THE PRODUC  |  |
| C   |  |  | CAST O OTHER O   |
|   | UU0/0/   |  | DESCRIBE OTHER;  |
|   | AUCION   |  | 1  |
| IST OF SUPPORTING   | OCLIMENTATION AND IDENTIFI   | CATION OF THE ACTUAL ITEMS TO BE   |  |
|   |  | Documents, Attachment B, Catalog Info  |  |
|   |  |  |  |
| David H. Peace  |  |  |  |
| David H. Peace<br>sponsibility for the qua<br>y knowledge represen<br>mperature ratings, and<br>anufacture of these fill<br>in part and has been  | ts the product for which registra<br>I identification markings are in a<br>lings is regulated by a Quality C<br>verified by "the British Standar   | ation is sought. The dimensions, mate<br>accordance with the herein named star<br>Control Program which extands to each<br>de lastitution  | ined in this form is true and to the best<br>hals of construction, pressure<br>inderds. I further declare that the<br>plant where fabrication occurs in who  |
| David H. Peace<br>esponsibility for the qui<br>y knowledge represen<br>imporature ratings, and<br>anufacture of these fill<br>r in part and has been<br>eclaration consciention   | ts the product for which registra<br>I identification markings are in a<br>lings is regulated by a Quality C<br>verified by "the British Standar   | accordance with the herein named star  | ined in this form is true and to the best<br>hals of construction, pressure<br>inderds. I further declare that the<br>a plant where fabrication occurs in who  |
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| David H. Peace<br>esponsibility for the qui<br>sy knowledge represent<br>importure ratings, and<br>manufacture of these fill<br>r in part and has been<br>eclaration consciention<br>ignature of Declarer:<br>eclared before me at<br>hile <u>O155</u> day of<br>commissioner of Oaths<br>r Notary Public: (sign)<br>CRN: <u>OC18924</u>  | to the product for which registra<br>d identification markings are in a<br>tings is regulated by a Quality of<br>verified by <u>The British Standar</u><br>isly believing it to be toe, and it<br><u>Solon</u> AD <u>A</u><br>(Affix Official seel to the righ<br>This registration must be reva   | USETHI<br>Notice and the information conta<br>atton is sought. The dimensions, mate<br>accordance with the herein named stal<br>Control Program which extands to each<br>control Program which extands to each<br>to each<br>control Program which extands to each<br>to each<br>to each<br>to each<br>to each<br>to each<br>to each<br>to each<br>to each<br>to each<br>the same force and<br>Notary Public, State of Ohio<br>Notary Public, State of Ohio<br>Nota | Ined in this form is true and to the best<br>rates of construction, pressure<br>inderds. I further declare that the<br>plant where fabrication occurs in whole<br>that purpose and I make this solemn<br>deffect as if made under oath.<br>S S P A C 5 FOR T H E<br>F I C I A L S E A L<br>He of acceptance.<br>ACCEPTED<br>PRINCE EDWARD ISLAND<br>ES, LAND & ENVIRONMENT |
| David H. Peace<br>esponsibility for the qua-<br>sy knowledge represen-<br>importure ratings, and<br>manufacture of these fill<br>r in part and has been<br>eclaration consciention<br>ignature of Declarer:<br>eclared before me at<br>his <u>O</u> <u>55</u> day of<br>commissioner of Oaths<br>r Notary Public; (sign)<br>CRN: <u>OC18924</u><br>FID#: <u>1214</u><br>Notes;  | to be the product for which registra<br>d identification markings are in a<br>lings is regulated by a Quality C<br>verified by <u>The British Standar</u><br>isly believing it to be true, and i<br><u>Solon</u> AD A<br>of <u>App</u> , AD A<br><u>Solon</u> AD A<br><u>Solon</u> This registration must be reva<br>. 5   | USETHI<br>Notice and the information conta<br>atton is accordance with the herein named sta<br>control Program which extands to each<br>control Program which extands to each<br>to each<br>control Program which extands to each<br>to each<br>control Program which extands to each<br>the same force and<br>USETHI<br>DIS   | Ined in this form is true and to the best<br>rates of construction, pressure<br>inderds. I further declare that the<br>plant where fabrication occurs in whole<br>that purpose and I make this solemn<br>deffect as if made under oath.<br>S S P A C 5 FOR T H E<br>F I C I A L S E A 2<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()      |
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| David H. Peace<br>esponsibility for the qua-<br>y knowledge represen-<br>importure ratings, and<br>an ufacture of these fill<br>in part and has been<br>eclaration consciention<br>ignature of Declarer:<br>eclared before me at<br>his <u>O</u> <u>S</u> day of<br>ommissioner of Oaths<br>r Notary Public: (sign)<br>CRN: <u>OC18924</u><br>FID#: <u>1214</u><br>Notes:<br>1. All fillings shall be reg<br>2. Each category shall b<br>forms and one copy of at   | Istered in the name of the Manuface<br>augported with two Statutory Decision.  | USETHI<br>Notice and the information conta<br>atton is sought. The dimensions, mate<br>accordance with the herein named stall<br>Control Program which extands to each<br>control Progra   | Ined in this form is true and to the best<br>rates of construction, pressure<br>inderds. I further declare that the<br>plant where fabrication occurs in who<br>that purpose and I make this solemn<br>deffect as if made under oath.<br>S S P A C 5 FOR T H E<br>F I C I A L S E A L<br>He of acceptance.<br>ACCEPTED<br>PRINCE EDWARD ISLAND<br>ES, LAND & ENVIRONMENT   |
| CRN: <u>0C18924</u><br>FID#: <u>1214</u><br>Notes:<br>1. All fittings shall be ragional to the sector of the sector | Istered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>is the person having (ull interest in the name of the Manuface)<br>is the person having (ull interest interes | Introductore that the information conta<br>atton is sought. The dimensions, mate<br>accordance with the herein named stall<br>Control Program which extands to each<br>rds Institution as being suitable for<br>knowing that it is of the same force and<br>U S E T H I<br>USE T H I<br>USE T H I<br>USE T H I<br>USE T H I<br>DIS jamle L Ristau O F<br>Rosident Portage County<br>Notary Public, State of Okio<br>Notary Public, State of Okio   | Adards. I further declare that the<br>plant where fabrication occurs in whole<br>r that purpose and I make this solemn<br>i effect as if made under oath.<br>S S P A C 5 FOR T H E<br>F I C I A L S E ALL<br>Ite of acceptance.<br>ACCEPTED<br>PRINCE EDWARD ISLAND<br>S, LAND & ENVIRONMENT<br>S ROY S 2017   |
| David H. Peace<br>esponsibility for the qua-<br>hy knowledge represen-<br>monufacture of these fill<br>r in part and has been-<br>eclaration consciention<br>ignature of Declarer:<br>leclared before me at<br>his <u>O</u> <u>55</u> day of<br>commissioner of Oaths<br>r Notary Public; (sign)<br>CRN: <u>OC18924</u><br>FID#: <u>1214</u><br>Notes:<br>1. All fittings shall be rep<br>2. Each category shall b<br>forms and one copy of st<br>3. The declaration shall<br>responsibility for the qual   | Istered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>intered in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>supported with two Statutory Dec<br>interest in the name of the Manuface<br>interest in the name of the Manuface<br>interest interest intere | Introductore that the information conta<br>atton is sought. The dimensions, mate<br>accordance with the herein named stall<br>Control Program which extands to each<br>rds Institution as being suitable for<br>knowing that it is of the same force and<br>U S E T H I<br>U S E T H I<br>DIS jamle L Ristau O F<br>Resident Portage County<br>Notary Public, State of Olito<br>Notary Public, State of Olito<br>DIS<br>Ildated after ten (10) years from the da<br>C.R.N. CO<br>COMMUNITH<br>C.R.N. CO<br>Sturor,<br>DATE:<br>Juntority and<br>INSPECTION   | Ined in this form is true and to the best<br>rates of construction, pressure<br>inderds. I further declare that the<br>plant where fabrication occurs in whole<br>that purpose and I make this solemn<br>deffect as if made under oath.<br>S S P A C 5 FOR T H E<br>F I C I A L S E A L<br>He of acceptance.<br>ACCEPTED<br>PRINCE EDWARD ISLAND<br>ES, LAND & ENVIRONMENT |

# Attachment B1. Scope for Swagelok Special Alloy 60 Series Ball Valves (Category C)

This document represents the scope of the Swagelok Special Alloy 60 Series Ball Valves covered by this submission for CRN approval. The Swagelok Special Alloy 60 Series Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

## Summary Table

| Product                  | Main<br>Pressure     | Main Pressure  | Port Connections and                          | Maximum Rated Pressure            |                                 | Design Code of  |
|--------------------------|----------------------|--|---|-----------------------------------|---------------------------------|---|
| Description<br>or Series | Bearing<br>Component | Bearing Material<br>(Standard)                       | Sizes   | At ambient temperature            | At maximum temperature          | Construction  |
|                          |                      | Stainless Steel<br>6MO<br>(ASTM A276<br>UNS S31254)  | Swagelok Tube Fitting 1/2"<br>Female NPT 1/2" | 2,200 psi<br>@ 100 <sup>0</sup> F | 100 psi<br>@ 450 <sup>º</sup> F | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
| 63                       |                      | Stainless Steel<br>2507<br>(ASTM A479<br>UNS S32750) | Swagelok Tube Fitting 1/2"<br>Female NPT 1/2" | 2,200 psi<br>@ 100 <sup>0</sup> F | 100 psi<br>@ 450 <sup>º</sup> F | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
| 63                       | Body                 | Alloy 825<br>(ASTM B425<br>UNS N08825)               | Swagelok Tube Fitting 1/2"<br>Female NPT 1/2" | 2,200 psi<br>@ 100 <sup>0</sup> F | 100 psi<br>@ 450 <sup>0</sup> F | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
|                          |                      | Alloy 625<br>(ASTM B446<br>UNS N06625)               | Swagelok Tube Fitting 1/2"<br>Female NPT 1/2" | 2,200 psi<br>@ 100 <sup>0</sup> F | 100 psi<br>@ 450 <sup>º</sup> F | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok Tubing Data, MS-01-107.



## Product Options:

The product options listed below affect pressure and/or temperature ratings shown in the above Summary Table, but in all cases the ratings are less than those shown in the table.

#### Flange Seal Material Options

Fluorocarbon, FKM Buna N Buna C Ethylene Propylene Neoprene Grafoil PTFE

#### Stem Seal Material Options

PTFE, virgin Fluorocarbon, FKM Buna C Ethylene Propylene Grafoil

#### Seat Material Options

PTFE, virgin PTFE, reinforced PTFE, carbon glass filled PEEK UHMWPE

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include the following:

Handle options Actuators (e.g. pneumatic, electric) Panel mounting Low dead space inserts

All of the above options, those that affect pressure and/or temperature ratings and those that do not, are within the scope of this approval.

#### **Quality System**

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The Special Alloy 60 Series Ball Valves products are made at a Swagelok Company location in Solon, Ohio.

#### **References**

The product catalog does not represent the full scope of registration, but rather details some of the most common options.

• 60 Series Ball Valves – Special-Alloy Fluid System Components Catalog MS-02-439

# Attachment B2. Scope for Swagelok Special Alloy 83 Series Ball Valves (Category C)

This document represents the scope of the Swagelok Special Alloy 83 Series Ball Valves covered by this submission for CRN approval. The Swagelok Special Alloy 83 Series Ball Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

## Summary Table

| Produc               | t Main<br>Pressure | Main Pressure  | Port Connections and   | Maximum Rated Pressure            |                                 | Design Code of  |
|----------------------|--------------------|--|--|-----------------------------------|---------------------------------|---|
| Descript<br>or Serie | ion Bearing        | Bearing Material<br>(Standard)                       | Sizes  | At ambient temperature            | At maximum temperature          | Construction  |
| 83                   | Dedu               | Stainless Steel<br>2507<br>(ASTM A479<br>UNS S32750) | Swagelok Tube Fitting<br>1/4", 3/8", 1/2", 6MM,<br>8MM, 10MM, 12MM<br>Female NPT 1/8", 1/4",<br>1/2" | 6,000 psi<br>@ 100 <sup>0</sup> F | 500 psi<br>@ 450 <sup>0</sup> F | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
| 83                   | Body               | Alloy 825<br>(ASTM B425<br>UNS N08825)               | Swagelok Tube Fitting<br>1/4", 3/8", 1/2", 6MM,<br>8MM, 10MM, 12MM<br>Female NPT 1/8", 1/4",<br>1/2" | 6,000 psi<br>@ 100 <sup>0</sup> F | 500 psi<br>@ 450 <sup>0</sup> F | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok Tubing Data, MS-01-107.



## **Product Options**

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include 3-way valves, seat materials, stem seal materials, actuators.

#### Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. Special Alloy 83 Series Ball Valves products are made at a Swagelok Company location in Solon, Ohio.

#### **References**

The product catalog does not represent the full scope of registration, but rather details some of the most common options.

• 83 Series Ball Valves – Special-Alloy Fluid System Components Catalog MS-02-357

# Attachment B3. Scope for Swagelok Specal Alloy Bleed Valves (Category C)

This document represents the scope of the Swagelok Special Alloy Bleed Valves covered by this submission for CRN approval. The Swagelok Special Alloy Bleed Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

#### Summary Table

| Product                  | Main<br>Pressure     | Main Pressure  | Port Connections and      | Maximum Rated Pressure             |   | Design Code of  |
|--------------------------|----------------------|--|---------------------------|------------------------------------|---|---|
| Description<br>or Series | Bearing<br>Component | Bearing Material Sizes                               |                           | At ambient temperature             | At maximum temperature                        | Construction  |
|                          |                      | Stainless Steel<br>2507<br>(ASTM A479<br>UNS S32750) | Male NPT 1/4", 3/8", 1/2" | 10,000 psi<br>@ 100 <sup>º</sup> F | 8,965 psi<br>@ 482 <sup>0</sup> F             | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
| 51/                      | Dedu                 | Alloy 625<br>(ASTM B446<br>UNS N06625)               | Male NPT 1/4", 3/8", 1/2" | 10,000 psi<br>@ 100 <sup>º</sup> F | 7,490 psi<br>@ 850 ⁰F                         | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
| BA                       | BV Body              | Alloy 825<br>(ASTM B425<br>UNS N08825)               | Male NPT 1/4", 3/8", 1/2" | 10,000 psi<br>@ 100 <sup>0</sup> F | 7,295 psi<br>@ 850 <sup>o</sup> F<br>(Note 1) | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
|                          |                      | Hastelloy C<br>(ASTM B574<br>UNS N10276)             | Male NPT 1/4", 3/8", 1/2" | 10,000 psi<br>@ 100 <sup>0</sup> F | 6,155 psi<br>@ 850 <sup>⁰</sup> F             | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |

Notes:

(1) For ASME B31.1 applications, this product is rated to 7,295 psi @ 800°F.



## Typical Product Characteristics:

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown in the Summary Table. All of the following options are within the scope of this registration:

Typical Options Handles Vent Tubes

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include handle options, actuator options, etc.

#### Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The Special Alloy Bleed Valves products are made at a Swagelok Company location in Solon, Ohio.

### **References**

The product catalog does not represent the full scope of registration, but rather details some of the most common options.

• BV Bleed Valves - Special Alloy Materials Catalog MS-02-356

# Attachment B4. Scope for Swagelok Special Alloy CH Series Check Valves (Category C)

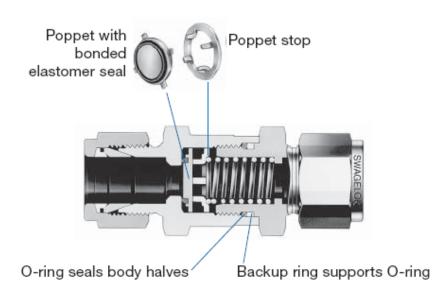
This document represents the scope of the Swagelok Special Alloy CH Series Check Valves covered by this submission for CRN approval. The Swagelok Special Alloy Check Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

## Summary Table

| Product                  | Main<br>Pressure   | Main Pressure  | Port Connections and   | Maximum Rated Pressure              |   | Design Code of  |
|--------------------------|--|--|--|-------------------------------------|---|---|
| Description<br>or Series | Bearing<br>Component   | Bearing Material<br>(Standard)   | Sizes  | At ambient temperature              | At maximum temperature  | Construction  |
|                          |  | Alloy 625<br>(ASTM B446<br>UNS N06625)   | Swagelok Tube Fitting<br>1/4", 3/8", 1/2"<br>Female NPT 1/4", 3/8",<br>1/2"<br>Male NPT 1/4", 3/8", 1/2" | 6,000 psi<br>@ 100 ⁰F               | 5070 psi<br>@ 400 <sup>0</sup> F  | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
| СН                       | CH Body Alloy 825<br>(ASTM B425<br>UNS N08825)<br>Stainless Steel<br>2507<br>(ASTM A479<br>UNS S32750) | (ASTM B425   | Swagelok Tube Fitting<br>1/4", 3/8", 1/2"<br>Female NPT 1/4", 3/8",<br>1/2"<br>Male NPT 1/4", 3/8", 1/2" | 6,000 psi ①<br>@ 100 <sup>0</sup> F | 4995 psi<br>@ 400 <sup>º</sup> F  | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |
|                          |  | Swagelok Tube Fitting<br>1/4", 3/8", 1/2"<br>Female NPT 1/4", 3/8",<br>1/2"<br>Male NPT 1/4", 3/8", 1/2" | 6,000 psi<br>@ 100 <sup>⁰</sup> F  | 5455 psi<br>@ 400 <sup>0</sup> F    | ASME B31.1<br>(Unlisted Components)<br>and<br>ASME B31.3<br>(Unlisted Components) |   |

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok Tubing Data, MS-01-107.

() Pressure ratings for valves with 1/2 in. female NPT end connections limited to 5700 psig (392 bar).



## Product Options:

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include poppet springs and body seal materials.

### **Quality System**

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The Special Alloy Bleed Valves products are made at a Swagelok Company location in Solon, Ohio.

### **References**

The product catalog does not represent the full scope of registration, but rather details some of the most common options.

• Check Valves – Special Alloy Materials – CH Series Catalog MS-02-440

# Attachment B5. Scope for Swagelok Special Alloy N and HN Series Needle Valves (Category C)

This document represents the scope of the Swagelok Special Alloy N and HN Needle Valves covered by this submission for CRN approval. The Swagelok Special Alloy N and HN Needle Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

## Summary Table

| Product                  | Main<br>Pressure     | Main Pressure  | Port Connections and  | Maximum Ra                        | ted Pressure                                   | Design Code of   |
|--------------------------|----------------------|--|---|-----------------------------------|--|--|
| Description<br>or Series | Bearing<br>Component | Bearing Material Sizes                               | At ambient temperature  | At maximum temperature            | Construction                                   |  |
|                          |                      | Stainless Steel<br>2507<br>(ASTM A479<br>UNS S32750) | Female NPT 1/8", 1/4"<br>Male NPT 1/4"<br>Swagelok Tube Fitting<br>1/4", 6MM                      | 6,000 psi<br>@ 100 <sup>0</sup> F | 5,370 psi<br>@ 482 <sup>0</sup> F              | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |
| 3N                       | Body                 | Alloy 825<br>(ASTM B425<br>UNS N08825)               | Female NPT 1/8", 1/4"<br>Male NPT 1/4"<br>Swagelok Tube Fitting<br>1/4", 6MM                      | 6,000 psi<br>@ 100 <sup>⁰</sup> F | 4,250 psi<br>@ 1000 <sup>0</sup> F<br>(Note 1) | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |
| 6N                       |                      | Alloy 825<br>(ASTM B425<br>UNS N08825)               | Female NPT 1/4", 3/8"<br>Swagelok Tube Fitting<br>3/8", 1/2", 10MM, 12MM                          | 6,000 psi<br>@ 100 <sup>0</sup> F | 4,250 psi<br>@ 1000 <sup>0</sup> F<br>(Note 1) | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |
| ON                       | Body                 | Stainless Steel<br>6MO<br>(ASTM A182<br>UNS S31254)  | Female NPT 1/4", 3/8"<br>Swagelok Tube Fitting<br>3/8", 1/2", 10MM, 12MM                          | 6,000 psi<br>@ 100 <sup>0</sup> F | 3,860 psi<br>@ 750 <sup>⁰</sup> F              | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |
| 12N                      | Body                 | Alloy 825<br>(ASTM B425<br>UNS N08825)               | Female NPT 1/2", 3/4", 1"<br>Male NPT 1/2", 3/4", 1"<br>Swagelok Tube Fitting<br>1/2", 3/4", 12MM | 6,000 psi<br>@ 100 <sup>0</sup> F | 4,250 psi<br>@ 1000 <sup>º</sup> F<br>(Note 1) | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |
| Neter                    |                      | Stainless Steel<br>6MO<br>(ASTM A182<br>UNS S31254)  | Female NPT 1/2", 3/4", 1"<br>Male NPT 1/2", 3/4", 1"<br>Swagelok Tube Fitting<br>1/2", 3/4", 12MM | 6,000 psi<br>@ 100 ⁰F             | 3,860 psi<br>@ 750 ⁰F                          | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |

Notes:

(1) For ASME B31.1 applications, this product is rated to 4,380 psi @ 800°F.

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok® Tubing Data, MS-01-107.

| Product                  | Main                             | Main Pressure  |   | Maximum Ra                         |  |  |
|--------------------------|----------------------------------|--|---|------------------------------------|--|--|
| Description<br>or Series | Pressure<br>Bearing<br>Component | Bearing Material<br>(Standard)                       | Port Connections and<br>Sizes   | At ambient temperature             | At<br>maximum<br>temperature                   | Design Code of<br>Construction   |
|                          |                                  | Stainless Steel<br>2507<br>(ASTM A479<br>UNS S32750) | Female NPT 1/8", 1/4"<br>Male NPT 1/4"<br>Swagelok Tube Fitting<br>1/4", 6MM  | 10,000 psi<br>@ 100 ⁰F             | 8,960 psi<br>@ 482 <sup>0</sup> F              | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |
| 3HN                      | Body                             | Alloy 825<br>(ASTM B425<br>UNS N08825)               | Female NPT 1/8", 1/4"<br>Male NPT 1/4"<br>Swagelok Tube Fitting<br>1/4", 6MM  | 10,000 psi<br>@ 100 ⁰F             | 7,080 psi<br>@ 1000 <sup>0</sup> F<br>(Note 1) | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |
| 6HN                      | Body                             | Stainless Steel<br>2507<br>(ASTM A479<br>UNS S32750) | Female NPT 1/4", 1/2"<br>Male NPT 1/2"<br>Swagelok Tube Fitting<br>3/8", 1/2" | 10,000 psi<br>@ 100 <sup>º</sup> F | 8,960 psi<br>@ 482 <sup>0</sup> F              | ASME B31.1<br>(Unlisted Components)<br>ASME B31.3<br>(Unlisted Components) |

Notes:

(1) For ASME B31.1 applications, this product is rated to 7,295 psi @ 800°F.

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok® Tubing Data, MS-01-107.



## Typical Product Characteristics

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown. All of the following options are within the scope of this registration:

Typical Options Handles

Vent Tubes

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include handle options, actuator options, etc.

#### Product Options

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include stem packing seal materials, stem tip, and handle options.

#### **Quality System**

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. Special Alloy N and HN Needle Valve products are made at a Swagelok Company location in Solon, Ohio.

#### **References**

The product catalog does not represent the full scope of registration, but rather details some of the most common options.

• N, HN Bleed Valves - Special Alloy Materials Catalog MS-02-365