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TECHNICAL STANDARDS & SAFETY AUTHORITY  
14TH FLOOR CENTRE TOWER-3300 BLOOR STREET  
TORONTO ON M8X 2X4

**Date:** April 20, 2016  
**Account #:** 35231  
**Journal #:** 65204  
**Our File #:** 5586983

**Attn:** TANYA FRANCIS

**Re:** Application for Design Registration

The design, as detailed in your, TSSA SR# 1821518, for a Fitting is accepted for registration as follows:

**Registered To:** SWAGELOK COMPANY                      **CRN:** 0C18171.51

**Drawing #:** MS-01-166 (Product Catalog)

**Drawing Revision:** Jan 2016

**Conditions Of Registration:**

Reg'n of Swagelok IPT Series CV, DB & NVT Trunnion Valves as per Attach: B1 scope of reg'n sheets (7 pgs).

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

**Reviewer's Notes:**

As required by CSA B51 4.2.1, this registration expires on January 08, 2026. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@safetyauthority.ca  
Design Administration

cc:

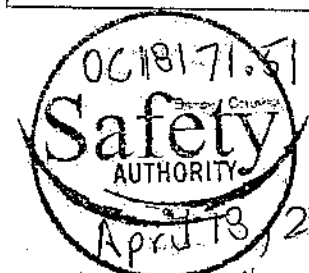
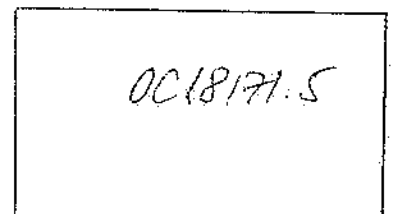
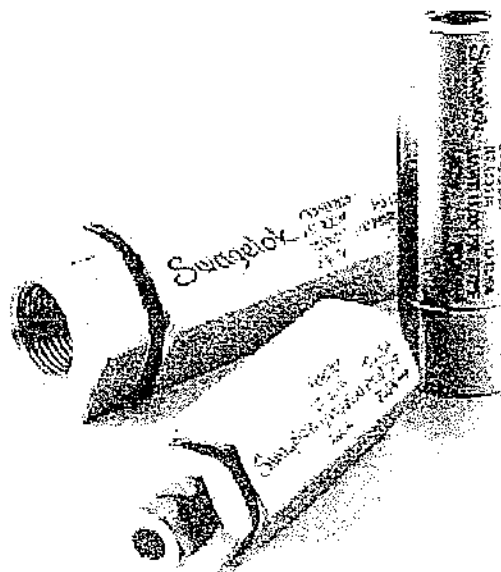
## Attachment B1: Scope of CRN Registration for Swagelok IPT Series Check Valves (Category C)

This document represents the scope of the Swagelok IPT Series Check Valve covered by this submission for CRN approval. The Swagelok IPT Series Check Valves were designed and evaluated in accordance with ASME B31.3 Chapter IX, for unlisted components where applicable.

### Summary Table

| Product Description or Series | Main Pressure Bearing Component | Main Pressure Bearing Material (Standard) | Port Connections and Sizes                           | Maximum Rated Pressure |                        | Design Code of Construction   |
|-------------------------------|---------------------------------|---|--|------------------------|------------------------|---|
|                               |                                 |   |  | At ambient temperature | At maximum temperature |   |
| CV (soft seat)                | Body                            | ASTM A479                                 | Female NPT 1/4", 3/8", 1/2"                          | 15,000 @ 100F          | 14,700 @ 250F          | ASME B31.3 Chapter IX<br><br>(For Unlisted Components Where Applicable) |
| CV (dual seat)                | Body                            | ASTM A479                                 | Female NPT 1/4", 3/8", 1/2"                          | 15,000 @ 100F          | 14,700 @ 250F          |   |
| CV (ball seat)                | Body                            | ASTM A479                                 | Female NPT 1/4", 3/8", 1/2"                          | 15,000 @ 100F          | 13,900 @ 650F          |   |
| CV (soft seat)                | Body                            | ASTM A479                                 | Female NPT 3/4", 1"                                  | 10,000 @ 100F          | 9,800 @ 250F           |   |
| CV (dual seat)                | Body                            | ASTM A479                                 | Female NPT 3/4", 1"                                  | 10,000 @ 100F          | 9,800 @ 250F           |   |
| CV (ball seat)                | Body                            | ASTM A479                                 | Female NPT 3/4", 1"                                  | 10,000 @ 100F          | 9,300 @ 650F           |   |
| CV (soft seat)                | Body                            | ASTM A479                                 | Cone-and-Thread (medium) 1/4", 3/8", 9/16", 3/4", 1" | 20,000 @ 100F          | 19,600 @ 250F          |   |
| CV (dual seat)                | Body                            | ASTM A479                                 | Cone-and-Thread (medium) 1/4", 3/8", 9/16", 3/4", 1" | 20,000 @ 100F          | 19,200 @ 250F          |   |
| CV (ball seat)                | Body                            | ASTM A479                                 | Cone-and-Thread (medium) 1/4", 3/8", 9/16", 3/4", 1" | 20,000 @ 100F          | 18,600 @ 650F          |   |

### Product Illustration



BCSA J# 65204

### Typical Product Characteristics

Some product options could 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. An example of this would be optional body seal materials.

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. An example of this would be different poppet springs.

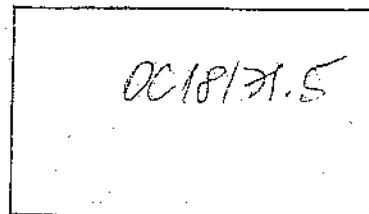
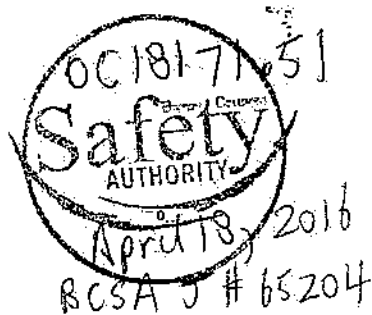
### Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. In support of this, Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729 and HSB Registration Services Certificate of Registration Number HQ-Q-4, which apply to all locations listed on the certificate.

### References

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

- Medium and High Pressure Valves, Fittings and Tubing Catalog MS-02-472



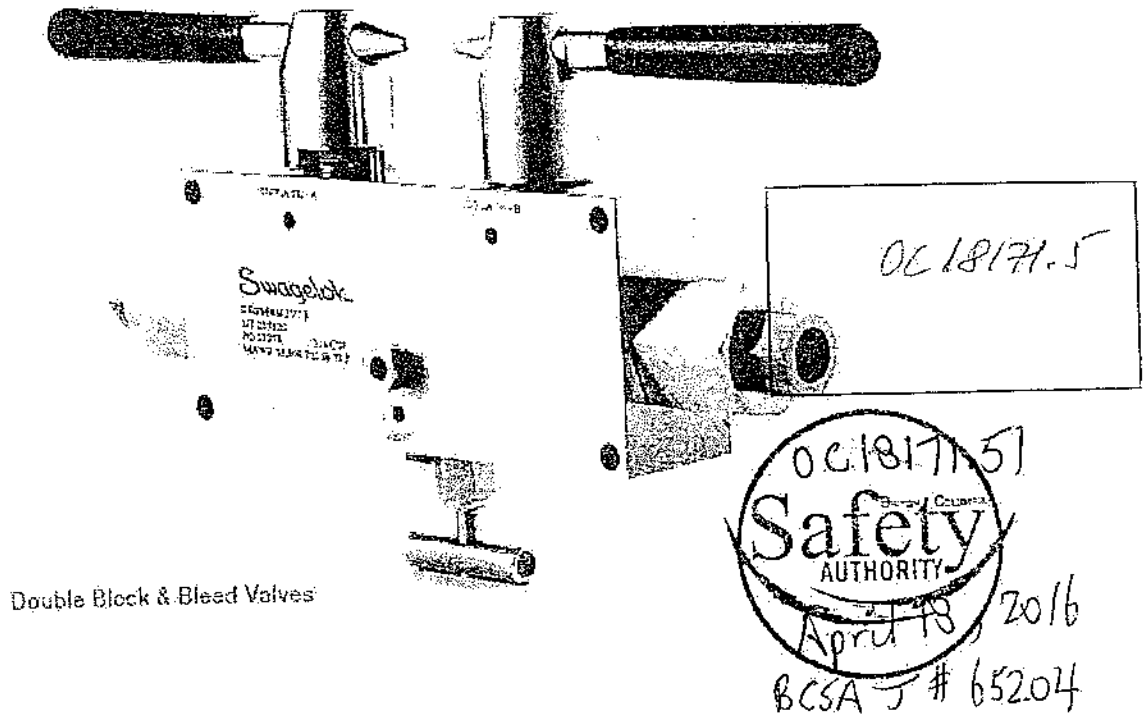
## Attachment B2: Scope of CRN Registration for Swagelok IPT Series Double Block and Bleed Valves (Category C)

This document represents the scope of the Swagelok IPT Series Double Block and Bleed Valve covered by this submission for CRN approval. The Swagelok IPT Series Double Block and Bleed Valves were designed and evaluated in accordance with ASME B31.3 Chapter IX, for unlisted components where applicable.

### Summary Table

| Product Description or Series | Main Pressure Bearing Component | Main Pressure Bearing Material (Standard) | Port Connections and Sizes                 | Maximum Rated Pressure: |                        | Design Code of Construction   |
|-------------------------------|---------------------------------|---|--|-------------------------|------------------------|---|
|                               |                                 |   |  | At ambient temperature  | At maximum temperature |   |
| DB (ball-needle-ball)         | Body                            | ASTM A479                                 | Female NPT 1/4", 3/8", 1/2"                | 15,000 @ 100F           | 14,700 @ 250F          | ASME B31.3 Chapter IX<br><br>(For Unlisted Components Where Applicable) |
| DB (needle-needle-needle)     | Body                            | ASTM A479                                 | Female NPT 1/4", 3/8", 1/2"                | 15,000 @ 100F           | 14,700 @ 250F          |   |
| DB (ball-needle-ball)         | Body                            | ASTM A479                                 | Cone and Thread (medium) 1/4", 3/8", 9/16" | 15,000 @ 100F           | 14,700 @ 250F          |   |
| DB (needle-needle-needle)     | Body                            | ASTM A479                                 | Cone and Thread (medium) 1/4", 3/8", 9/16" | 20,000 @ 100F           | 19,600 @ 250F          |   |

### Product Illustration



### Typical Product Characteristics

Some product options could 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. An example of this would be optional body seal materials.

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. An example of this would be different handles.

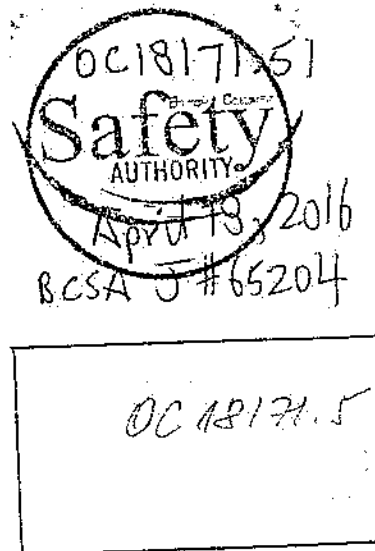
### Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. In support of this, Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729 and HSB Registration Services Certificate of Registration Number HQ-Q-4, which apply to all locations listed on the certificate.

### References

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

- Medium and High Pressure Valves, Fittings and Tubing Catalog MS-02-249



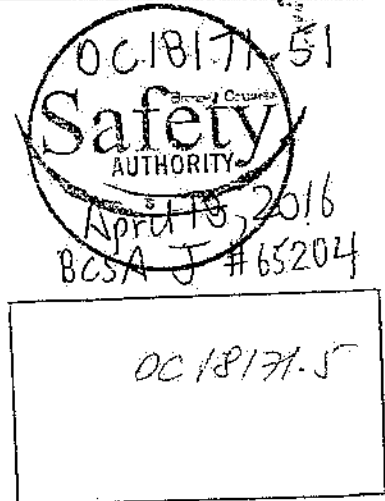
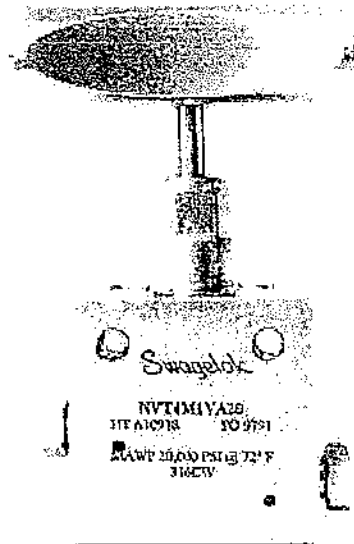
## Attachment B3: Scope of CRN Registration for Swagelok IPT Series Needle Valves (Category C)

This document represents the scope of the Swagelok IPT Series Needle Valve covered by this submission for CRN approval. The Swagelok IPT Series Needle Valves were designed and evaluated in accordance with ASME B31.3 Chapter IX, for unlisted components where applicable.

### Summary Table

| Product Description | Main Pressure Bearing Component | Main Pressure Bearing Material (Standard) | Port Connections and Sizes                 | Maximum Rated Pressure |                        | Design Code of Construction                                      |
|---------------------|---------------------------------|---|--|------------------------|------------------------|--|
|                     |                                 |   |  | At ambient temperature | At maximum temperature |  |
| NVT                 | Body                            | ASTM A479                                 | Female NPT 1/4", 3/8", 1/2"                | 15,000 @ 100F          | 14,700 @ 250F          | ASME B31.3 Chapter IX (For Unlisted Components Where Applicable) |
| NVT                 | Body                            | ASTM A479                                 | Female NPT 3/4", 1"                        | 10,000 @ 100F          | 9,800 @ 250F           |  |
| NVT                 | Body                            | ASTM A479                                 | Cone-and-Thread (medium) 1/4", 3/8", 9/16" | 30,000 @ 100F          | 29,400 @ 250F          |  |

### Product Illustration



### Typical Product Characteristics

Some product options could 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. An example of this would be optional body seal materials.

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. An example of this would be different handles.

**Quality System**

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. In support of this, Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729 and HSB Registration Services Certificate of Registration Number HQ-Q-4, which apply to all locations listed on the certificate.

**References**

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

- Medium and High Pressure Valves, Fittings and Tubing Catalog MS-02-249

